

9. On the Lepidopterous Insects of Bengal.

By FREDERIC MOORE.

[Continued from Proc. Zool. Soc. 1865, p. 823.]

(Plates VI. & VII.)

The first part of this "List of the Lepidopterous Insects of Bengal" appeared in the Society's 'Proceedings' for December 1865; and in it were enumerated 629 species, pertaining to the first three tribes of the order.

In the present and concluding portions the remaining tribes, viz. the Noctues, Pyrales, Geometres, &c., are treated of, and the names and descriptions of 960 species belonging to these groups are given, of which number about 250 are characterized for the first time.

For the specimens used in the compilation of this list I am mostly indebted to Messrs. A. E. Russell and W. S. Atkinson, of the Bengal Civil Service, both of whom kindly placed collections at my disposal, other species being contained either in the collections of the British Museum or in my own. All these have been compared with the species described by Mr. Walker in the British Museum Catalogues, the result of which has been the reduction of various generic and specific names of that author to the rank of synonyms.

The total number of species of the Lepidopterous Insects of Bengal that are recorded in this memoir in each tribe are as follows:—

Papiliones	409
Sphinges	50
Bombyces	387
Noctues	288
Pseudo-deltoides	27
Deltoides	34
Pyrales	73
Geometres	288
Crambices	18
Tortrices	7
Tineines	35
Total	1616

Tribe NOCTUES.

FAM. CYMATOPHORIDÆ.

Genus GONOPHORA, Bruand.

GONOPHORA INDICA, n. sp.

Pale fawn-colour: fore wing with the base uniform pale fawn-colour, bordered by an oblique silvery-white line, and traversed by a white basal streak, which is crossed by a narrow line; middle of the costa white, beneath which the wing is pale ferruginous, with delicate undulating transverse striae, and a series of four narrow pale-bordered darker zigzag discal lines, bordered externally by a sub-

marginal white band; a darker curved pale-inner-bordered streak before the apex; a marginal row of narrow pale lunules: hind wing darker fawn-colour, palest on the disk. Head, thorax, and abdomen pale ferruginous.

Expanse $1\frac{3}{4}$ to 2 inches.

Bengal. In Coll. A. E. Russell.

Genus *THYATIRA*, Hübn.

THYATIRA BATIS, Linn. Syst. Nat. i. 2. p. 286.

T. ALBICOSTA, n. sp.

Greyish brown: fore wing varied pinkish and greenish white along the costa, beneath which are numerous transverse narrow undulating dark-brown pale-bordered lines; two indistinct reniform discal marks; a curved streak beneath the apex, and a marginal undulating narrow line: hind wing with a discal and two subbasal pale bands; cilia greyish white. Head and thorax brown. Abdomen pale greyish brown.

Expanse $2\frac{3}{8}$ inches.

Bengal. In Coll. A. E. Russell.

Genus *OSICA*, Walk.

OSICA UNDULATA, n. sp.

Brown: fore wing dark ferruginous brown, suffused with grey broadly from posterior angle; numerous transverse blackish pale-bordered undulating lines, and a marginal lunulated line: hind wing brownish fawn-colour. Head and front of thorax dull yellow. Thorax grey. Abdomen pale brown.

Expanse $2\frac{1}{4}$ inches.

Bengal. In Coll. A. E. Russell.

Fam. *BRYOPHILIDÆ*.

Genus *BRYOPHILA*, Treit.

BRYOPHILA ALBISTIGMA, n. sp.

Greyish green: fore wing with darker transverse undulating pale-bordered lines; two dots within the cell and border of large reniform mark, submarginal and marginal row of spots silvery white, the latter row with black central dots: hind wing pale pinkish fawn-colour, with a narrow brown pale-bordered discal band. Body greyish green.

Expanse 1 inch.

Bengal. In Coll. A. E. Russell.

Fam. *BOMBYCOIDÆ*.

Genus *DIPHTERA*, Ochs.

DIPHTERA ATROVIRENS, Walk. Catal. Lepid. Het. B. M. xxxii. Suppl. ii. p. 614.

Darjeeling.

D. NIGROVIRIDIS, Walk. Catal. Lepid. Het. B. M. p. 615.

Darjeeling.

D. PRASINARIA, Walk. ib. p. 615.

Darjeeling.

D. VIGENS, Walk. ib. p. 616.

Darjeeling.

D. PALLIDA, n. sp. (Pl. VI. fig. 6.)

Pale sap-green : fore wing with spots along the costa, a short streak from the base below the costa, descending beneath and proceeding along the posterior margin and ascending irregularly upwards, beyond which are three streak-like spots ; at the extremity of the cell is a quadrate spot with pointed angles, beyond which is also a streak-like spot ; a transverse irregular line black ; the latter bordered inwardly, and the other markings outwardly with silvery white ; a marginal row of black white-bordered dots : hind wing pale greenish white. Head and thorax pale green. Thorax with a spot on each side in front and others on the top black. Abdomen pale grey, with delicate black dorsal spots.

Expanse $1\frac{1}{3}$ inch.

Bengal. In Coll. A. E. Russell.

D. DISCIBRUNNEA, n. sp. (Pl. VI. fig. 14.)

Pale dull green : fore wing with numerous spots along the costa, spots within and beneath the cell, base of wing, and transverse discal marks black ; those at the base, at the extremity of the cell, and the transverse discal series interspersed with brown ; a marginal series of small blackish lunules : hind wing pale greyish brown, with broad darker brown marginal and narrow discal bands. Head and thorax green, fringed with small blackish-brown spots. Abdomen greyish brown.

Expanse $1\frac{3}{8}$ inch.

Bengal. In Coll. A. E. Russell.

Genus *ACRONYCTA*, Ochs.

ACRONYCTA PRUINOSA, Guen. Noct. i. p. 53.

Silhet.

A. FLAVALA, n. sp.

Male. Fore wing greyish cupreous brown, with some short blackish streaks at the base, a black oblique transverse subbasal, discal, and submarginal sinuous grey-bordered lines, each terminating on the costa ; reniform mark small, grey, the space above it being also grey : hind wing yellow, with a broad submarginal pale brown band, which extends upwards along the abdominal margin to the base. Cilia of fore wing brown, of hind wing whitish. Head and thorax greyish white, speckled with black. Abdomen pale brown ; dorsal

tufts and tip darker. Underside glossy yellow: fore wing with a broad brown marginal band and large discal spot: hind wing with brown submarginal band.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell.

A. INDICA, n. sp.

Male. Dusky black: fore wing with a basal, double subbasal, a small circular white-centred orbicular mark, and a large quadrate reniform mark, three transverse discal lunulated lines, and a marginal row of spots black, more or less bordered with white: hind wing pale greyish brown. Palpi, head, and thorax hoary. Abdomen brown.

Expanse $1\frac{5}{8}$ inch.

Bengal. In Coll. F. Moore.

Genus GAURENA, Walk.

GAURENA FLORENS, Walk. Cat. Lep. Het. B. M. xxxii. Suppl. ii. p. 620.

Darjeeling.

G. FLORESCENS, Walk. ib. p. 620.

Darjeeling.

Fam. LEUCANIDÆ.

Genus MYTHIMNA, Hübn.

MYTHIMNA CERVINA, n. sp. (Pl. VI. fig. 18.)

Greyish fawn-colour: fore wing with ill-defined basal marks, a transverse recurved double line one-fourth from the base and a straighter similar double line one-fourth from the apex, and a submarginal series of small lunular spots chocolate-brown; the upper portion of the interspace between the transverse double lines also chocolate-brown, which contains two reversely oblique reniform marks, the inner one being greyish fawn-colour in the centre, the other dusky: hind wing and abdomen pale greyish brown. Head and thorax greyish fawn-colour, with chocolate-brown streaks. Cilia and tip of abdomen pinkish brown.

Expanse $1\frac{3}{4}$ inch.

Bengal. In Coll. A. E. Russell.

Genus LEUCANIA, Ochs.

LEUCANIA EXTRANEA, Guen. Noct. i. p. 77.

Calcutta.

L. EXSANGUIS, Guen. Noct. i. p. 83.

Silhet.

L. CONFUSA, Walk. Cat. Lep. Het. B. M. ix. Noct. p. 105.

L. EXTERIOR, Walk. ib. p. 106.

L. DESIGNATA, Walk. ib. p. 107.

L. VENALBA, n. sp.

Pale brownish ochreous: fore wing with the veins white, their interspaces with parallel narrow pale fawn-coloured lines; a pale diffused fawn-coloured streak from the base to the apex, which is divided at the apex by a pale oblique streak; a similar streak along the posterior margin; two dark dots below the cell, and an indistinct transverse discal series of dots: hind wing white. Head and thorax brownish ochreous, with hoary bands. Abdomen paler.

Expanse $1\frac{1}{4}$ inch.

Bengal. In Coll. A. E. Russell.

L. PULCHERRIMA, n. sp. (Pl. VI. fig. 7.)

Pale greyish fawn-colour: fore wing with the costa pale purplish fawn-colour; a greenish-brown fascia from the base of the costa to middle of the disk and thence ascending to the apex; a purplish-white streak bordering the outer margin of the fascia, from the discal angle of which it extends, in one direction, in a straight line with an ascending branch to the exterior margin of the wing, and in the other direction to the middle of the posterior margin, the ascending branch of the former being bordered above with greenish brown; a well-defined silvery-white longitudinal streak within the cell, beyond which is a white-speckled black reniform mark: hind wing pale greyish fawn-colour. Head, thorax, and abdomen greyish fawn-colour.

Expanse, ♂ $1\frac{1}{3}$, ♀ $1\frac{1}{4}$ inch.

Darjeeling. In Coll. A. E. Russell.

L. DECISSIMA, Walk. Cat. Lep. Het. B. M. xxxii. Suppl. ii. p. 624.

Darjeeling.

TYMPANISTES, n. g., Moore.

Body robust. Abdomen cylindrical, extending beyond the hind wings. Proboscis moderate. Antennæ stout, setaceous, long, extending beyond the middle of the costa. Legs slender; femora slightly pilose beneath; hind tibiæ with four moderately long spurs. Abdomen with a horny-like cavity at the base beneath, and a fan-like appendage above it on each side. Palpi erect, slender, long, extending above the head, slightly pilose; third joint long, cylindrical, two-thirds the length of the second. Fore wing long; costa moderately arched at the base, thence straight to the apex, which is slightly acuminate; exterior margin oblique, angle rounded; posterior margin convex near the base. Hind wings somewhat quadrate; anterior margin straight; exterior margin produced and rounded in the middle.

TYMPANISTES PALLIDA, n. sp. (Pl. VI. fig. 1.)

Male and *female* semitransparent, glossy: fore wing pale dull yellow, with three or four transverse indistinct dusky lunulated lines and a discal dot, and a marginal row of brown dots: hind wing pale white, with a more or less visible row of marginal dots. Head and thorax dull greenish. Antennæ testaceous. Abdomen and legs pale testaceous above, white beneath. Underside pale silky white.

Expanse $1\frac{3}{4}$ inch.

Darjeeling. In Coll. W. S. Atkinson, Esq.; F. Moore.

Note.—"This species makes a clicking noise as it flies. It has a drum-apparatus underneath."—*W. S. Atkinson*, Darjeeling, Aug. 1862.

T. TESTACEA, n. sp. (Pl. VI. fig. 2.)

Male and *female* testaceous, paler beneath: fore wing varied with suffused patches of green and pinkish testaceous, and with numerous delicate short transverse striæ; two irregular transverse indistinct dusky streaks, between which is a black discal spot; a submarginal zigzag dusky line, and a marginal row of black dots: hind wing and abdomen pinkish testaceous; cilia pinkish white. Head green. Thorax greenish testaceous.

Expanse $1\frac{1}{2}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Genus AUCHMIS, Hübn.

AUCHMIS SIKKIMENSIS, n. sp. (Pl. VI. fig. 15.)

Brownish fawn-colour: fore wing purplish along the costa, silvery grey beneath the costa; a black line from middle of the base interruptedly ascending to, and bordering the lower half of, a reniform stigma, and thence ascending in broken dashes to beneath the apex, the space beneath which from the base is dark greenish brown; obliquely on the exterior margin are three or four ascendingly decreasing dark-bordered silvery-grey lanceolate marks; a blackish streak along middle of posterior margin; a transverse series of indistinct black discal spots: hind wing pale, with broad brown marginal border. Thorax purplish fawn-colour, with brown-bordered black stripes. Abdomen greyish brown.

Expanse $1\frac{2}{3}$ inch.

Darjeeling. In Coll. A. E. Russell.

Remark.—Closely allied to *A. perspicillaris* of Europe.

Genus HERMONASSA, Walk.

HERMONASSA CONSIGNATA, Walk. Cat. Lep. Het. B. M. xxxii. Suppl. ii. p. 632.

Darjeeling (*W. S. Atkinson*).

PROC. ZOOL. SOC.—1867, No. IV.

Fam. GLOTTULIDÆ.

Genus POLYTELA, Guen.

POLYTELA GLORIOSÆ, Fabr. (Guen. Noct. i. p. 113).

Larva feeds on grass (July 19th); the same evening it went into the earth; ten days after the moth appeared.—*Lady Rose Gilbert's Notes.*

Genus GLOTTULA, Guen.

GLOTTULA DOMINICA, Cram. Pap. Exot. iv. pl. 399. f. H.

Larva feeds on *Crinum paniculatum*, *Zephyranthus*, &c.—*E. Blyth.*

Genus CHASMINA, Walk.

CHASMINA CYGNUS, Walk. Cat. Lep. Het. B. M. ix. Noct. p. 147.

Fam. GORTYNIDÆ.

Genus GORTYNA, Ochs.

GORTYNA CUPREA, n. sp. (Pl. VI. fig. 8.)

Male dark ferruginous: fore wing with orbicular and reniform marks large, distinct, yellowish; exterior to each is a transverse blackish ashy-bordered line, which colour extends along the costa; some yellowish marks near the base; a submarginal lunulated yellowish line: hind wing blackish cupreous, paler along anterior margin; cilia pale cupreous. Head and thorax ferruginous. Abdomen ashy above, tuft and beneath ferruginous.

Expanse $1\frac{3}{8}$ inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

Genus HYDRÆCIA, Guen.

HYDRÆCIA NAXIAOÏDES, n. sp.

Dark greenish brown: fore wing with two outwardly oblique darker brown chalybeous-outer-bordered transverse lines, the inner line straight and one-third from the base, the outer line waved and one-third from the apex; a submarginal row of irregularly disposed brown spots bordered outwardly by a chalybeous line: hind wing and abdomen plain brown. Head and thorax dark greenish brown. Cilia pale pinkish brown.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell.

Fam. XYLOPHASIDÆ.

Genus XYLOPHASIA, Steph.

XYLOPHASIA FLAVISTIGMA, n. sp.

Male ferruginous: fore wing suffused with blackish brown along the costa, across the basal half of the wing and in irregular longi-

tudinal streaks on the exterior margin, the latter with pale borders ; a pale space below the apical half of the costa containing two round yellowish spots, one at the extremity of the cell, the other beyond ; small spots along the costa, two marks within the cell, short streaks and transverse lines below the cell black : hind wing pale greyish brown, with broad darker brown marginal band. Head and thorax blackish brown, the latter ferruginous in the middle. Abdomen brown.

Expanse $1\frac{3}{4}$ inch.

Bengal. In Coll. A. E. Russell.

X. LEUCOSTIGMA, n. sp.

Female ferruginous : fore wing varied with pale ferruginous and dark ferruginous brown ; a dark basal curved double line enclosing a pale space, a transverse sinuous double line beyond, irregular transverse discal lunulated lines, and submarginal row of lanceolate marks ; orbicular mark pale ; a large irregular-shaped pale-bordered white reniform mark : hind wing and abdomen reddish fawn-colour. Head and thorax varied pale ferruginous and dark ferruginous brown. Cilia ferruginous.

Expanse 2 inches.

Bengal. In Coll. A. E. Russell.

Genus DIPTERYGIA, Steph.

DIPTERYGIA INDICA, n. sp.

Female dark reddish brown : fore wing mottled with blackish brown, a greyish elongated patch disposed exteriorly along posterior margin, bordered above by an irregular blackish line : hind wing and abdomen brown. Head and thorax dark reddish brown.

Expanse $1\frac{1}{2}$ inch.

Darjeeling. In Coll. F. Moore.

Genus SPODOPTERA, Guen.

SPODOPTERA CILIMUM, Guen. Noct. i. p. 156.

Larva feeds on the Doobh Grass (*Cynodon dactylon*).—*A. Grote, Esq.*

Genus PRODENIA, Guen.

PRODENIA CILIGERA, Guen. Noct. i. p. 163.

P. glaucistriga, Walk. Cat. Lep. Het. B. M. ix. Noct. 197, ♀.

? *P. retina*, Boisd.

Larva very destructive to cabbages.—*A. Grote, Esq.*

P. infecta, Walk. ib. p. 196.

P. insignata, Walk. ib. p. 197.

P. lectula, Walk. ib. xv. Noct. p. 1679.

Genus CALOGRAMMA, Guen.

CALOGRAMMA FESTIVA, Donov. Epit. Ins. New Holl.

C. picta, Guen. Noct. i. p. 166 (Voy. Coquille, ii. pl. 19. f. 7).Larva feeds on *Crinum* and Liliaceous plants.—*A. Grote, Esq.*

Fam. EPISEMIDÆ.

Genus HELIOPHOBUS, Boisd.

HELIOPHOBUS DISSECTUS, Walk. Cat. Lep. Het. B. M. xxxii. Suppl. ii. p. 656.

Fam. APAMIDÆ.

Genus MAMESTRA, Ochs.

MAMESTRA INFAUSTA, Walk. Cat. Lep. Het. B. M. ix. Noct. p. 237.

Silhet.

M. chalybeata, Walk. ib. xxxii. Suppl. ii. p. 665.Darjeeling (*W. S. Atkinson*).*M. metallica*, Walk. ib. p. 666.Darjeeling (*W. S. Atkinson*).*M. nigrocuprea*, n. sp.*Male* glossy blackish cupreous: fore wing with indistinct black transverse subbasal, discal, and submarginal lunulated lines; orbicular and reniform marks black, the latter partly pale-centred: hind wing pale cupreous brown, darkest exteriorly. Abdomen brown.Expanse $1\frac{1}{4}$ inch.

Bengal. In Coll. A. E. Russell; F. Moore.

M. suffusa, n. sp.*Male* and *female* dark glossy fawn-coloured brown, suffused with chalybeous: fore wing with two transverse subbasal blackish sinuous lines; orbicular marks within the cell and three discal lunulated lines, a submarginal pale outer-bordered dark wavy line, and a marginal row of blackish points bordered within with chalybeous speckles. Reniform mark white in the male, pale brown in the female. Head and thorax dark brown. Hind wing and abdomen pale fawn-coloured brown; anal tuft pale ferruginous brown. Cilia greyish brown.Expanse, ♂ $1\frac{3}{4}$, ♀ 2 inches.

Bengal. In Coll. A. E. Russell; F. Moore.

M. albomaculata, n. sp.*Male* and *female* dark fawn-coloured brown: fore wing with several indistinct blackish transverse lunulated lines more or less bordered with whitish speckles; a series of small spots along the costa, large irregular-shaped reniform mark, a marginal row of dots,

and distinct spots on cilia white : hind wing and abdomen pale brown. Head and thorax dark brown ; a large white spot at the base of the thorax. Cilia brown, edged with white.

Expanse, ♂ $1\frac{2}{10}$, ♀ $1\frac{4}{10}$ inch.

Darjeeling. In Coll. A. E. Russell ; W. S. Atkinson.

M. ALBIRENA, n. sp.

Male dark greyish brown : fore wing with small spots on the costa, a few disposed near the base ; a discal row of dots, a submarginal and marginal wavy line, pale greyish brown ; reniform mark composed of a short white upright streak and a separate lower spot, which is constricted on its inner side : hind wing brown, with a paler marginal wavy line. Exterior margins of the wings scalloped ; the apex of fore wing slightly falcated. Head, thorax, and abdomen greyish brown.

Expanse $1\frac{5}{8}$ inch.

Calcutta ; Darjeeling. In Coll. A. E. Russell ; W. S. Atkinson.

M. SIKKIMA, n. sp.

Male and *female* dark fuliginous brown : fore wing with a short subbasal longitudinal streak, beyond which is a transverse sinuous double line, the discal lunulated lines, and a submarginal row of short longitudinal streaks black, more or less with greenish-grey borders ; orbicular and reniform marks large and greenish grey : hind wing pale fuliginous brown, darkest exteriorly. Head and thorax blackish ; thorax with a slight ferruginous collar fringed with white. Abdomen brown.

Expanse $1\frac{1}{4}$ inch.

Darjeeling. In Coll. A. E. Russell ; F. Moore.

Genus *PERIGEA*, Guen.

PERIGEA TRICYCLA, Guen. Noct. i. p. 226.

Silhet.

P. APAMEOÏDES, Guen. Noct. i. p. 229.

♂. *P. canorufa*, Walk. Catal. Lep. Het. B. M. xxxii. Suppl. ii. p. 683.

♀. *P. illecta*, Walk. ib. p. 684.

Larva feeds on *Cereopsis*.—*A. Grote, Esq., Calcutta.*

Genus *AMYNA*, Guen.

AMYNA SELENAMPHA, Guen. Noct. i. p. 406 ; Walk. Cat. Lep. Het. B. M. xv. p. 1696.

A. spoliata, Walk. ib. xiii. p. 1050.

Silhet.

Fam. NOCTUIDÆ.

Genus *AGROTIS*, Ochs.

AGROTIS SUFFUSA, Gmel. (Guen. Noct. i. p. 268).

Genus *EPILECTA*, Hübn.*EPILECTA PULCHERRIMA*, n. sp. (Pl. VI. fig. 3.)

Male and *female* blackish cupreous brown: fore wing with two basal, one discal, and two marginal black-bordered yellowish-green transverse lunulated lines, the discal row with the lower lunules exteriorly pointed with white; reniform spot yellow; four small whitish spots on costa before the apex: hind wing cupreous brown, with a broad irregular golden-yellow discal band. Cilia of hind wing broad, brown in the middle of the margin, the rest yellow. Head, thorax, and anal tuft blackish brown. Abdomen brown, the segments with narrow pale yellowish band.

Expanse $1\frac{7}{8}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Genus *TRIPHÆNA*, Ochs.*TRIPHÆNA SEMIHERBIDA*, Walk. Cat. Lep. Het. B. M. xi. Noct. p. 743.Genus *GRAPHIPHORA*, Ochs.*GRAPHIPHORA C-NIGRUM*, Linn. (Guen. Noct. i. p. 328).*G. CERASTIOIDES*, n. sp.

Male and *female* dark purple fawn-colour: fore wing with two darker transverse subbasal indistinct double lines, orbicular mark, and a transverse discal double line, the latter with an outward row of indistinct dots and a submarginal pale line; reniform mark distinct and reddish-centred: hind wing and abdomen pale fawn-colour; tip of abdomen and cilia pale reddish. Head and thorax dark purple fawn-colour.

Expanse $1\frac{1}{8}$ inch.

Darjeeling. In Coll. W. S. Atkinson; Brit. Mus.

G. FASCIATA, n. sp.

Male and *female* pale testaceous: fore wing with a dark fascia across the middle and along the exterior margin; an ill-defined blackish basal, subbasal, and discal transverse narrow lunulated lines, the last having an outer row of blackish dots, beyond which is a wavy pale-bordered line and a row of marginal dots; a blackish spot within the cell; reniform mark distinct, brighter testaceous above, blackish below, partly bordered with white: hind wing pale fawn-colour. Head, thorax, and abdomen pale testaceous.

Expanse $1\frac{3}{8}$ inch.

Darjeeling. In Coll. A. E. Russell; F. Moore.

G. BASISTRIGA, n. sp.

Male greyish testaceous: fore wing with a diffused dark longitudinal streak from the base, which spreads along the posterior margin; two subbasal dusky double lines, the second of which proceeds to near the posterior angle; orbicular and reniform marks, discal and

submarginal double lines, and costal spots dusky, between the latter is a double row of blackish dots; a single blackish dot near base of the cell: hind wing pale yellowish testaceous, with an indistinct discal streak. Head grey, thorax dark, and abdomen pale testaceous. Cilia pinkish testaceous.

Expanse $1\frac{1}{4}$ inch.

Darjeeling. In Coll. W. S. Atkinson; Brit. Mus.

G. RUBICILIA, n. sp.

Male and *female* yellowish testaceous: fore wing with a slight dark fascia diffused across the middle, and a streak obliquely before the apex; reniform mark, a marginal row of narrow longitudinal dusky streaks transversely divided in the middle and bordered inwardly by a narrow pale line: hind wing pale pinkish fawn-colour. Head and front of thorax greenish yellow; hind part of thorax testaceous. Abdomen pale testaceous, tuft reddish. Cilia pale reddish.

Expanse $1\frac{1}{4}$ inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

Genus OCHROPLEURA, Hübn.

OCHROPLEURA FLAMMATRA, Gmel. (Guen. Noct. i. p. 327).

Agrotis basiclavus, Walk. Cat. Lep. Het. B. M. x. Noct. p. 346.

O. RENALIS, n. sp.

Male brownish fawn-colour: fore wing with a transverse basal and subbasal double lines, between which is a diffused streak, a slight spot beneath the cell, the space before the orbicular and reniform marks blackish, both being greyish-centred and with their borders black; two transverse series of ill-defined dusky dots: hind wing and abdomen pale brown; anal tuft pale ferruginous. Head and thorax brown; thorax with a slight blackish collar.

Expanse $1\frac{1}{4}$ inch.

Bengal. In Coll. A. E. Russell.

O. SPILOTA, n. sp.

Female dull testaceous: fore wing with the costa broadly testaceous yellow; the veins lined with yellowish; a longitudinal spot within the cell, a transverse lunule at the extremity, and a longitudinal spot beneath the cell, and two or three smaller basal spots jet-black, each with a pale yellow narrow border; exterior margin with a series of black dots: hind wing pale yellowish testaceous. Head, thorax, and abdomen testaceous.

Expanse $1\frac{2}{10}$ inch.

Bengal. In Coll. A. E. Russell; F. Moore.

O. TRIANGULARIS, n. sp.

Female dark chocolate-brown: fore wing with a broad basal costal streak, including the orbicular mark and the inner border of the reniform mark, yellowish ferruginous, which is bordered below by a

jet-black line extending at the base into a large triangular streak ; two transverse pale discal wavy lines ; a short black descending spot from the costa before the apex terminated by a pale submarginal line : hind wing and abdomen pale chocolate-brown. Head and thorax chocolate-brown ; front of thorax yellowish ferruginous, bordered by a broad jet-black collar.

Allied to *O. musiva*.

Expanse $1\frac{5}{8}$ inch.

Darjeeling. In Coll. W. S. Atkinson ; F. Moore.

O. COSTALIS, n. sp.

Pale pinkish testaceous : fore wing with a broad testaceous-white costal streak bordered below by a parallel black streak interrupted by well-defined small pale-centred orbicular and reniform marks ; exterior margin with a row of black dots : hind wing white. Head and front of thorax pale pinkish testaceous, divided by a black line, two small black spots between the base of the antennæ ; hind part of thorax dark pinkish testaceous. Abdomen pale testaceous.

Expanse $1\frac{1}{4}$ inch.

Darjeeling. In Coll. W. S. Atkinson ; Brit. Mus.

FAM. ORTHOSIDÆ.

Genus ORTHOSIA, Ochs.

ORTHOSIA CURVIPLANA, Walk. Catal. Lep. Het. B. M. xxxiii. Suppl. iii. p. 715.

Darjeeling (*W. S. Atkinson*).

O. EXTERNA, Walk. ib. p. 715.

Darjeeling (*W. S. Atkinson*).

Genus DABARITA, Walk.

DABARITA SUBTILIS, Walk. ib. x. Noct. p. 479.

Larva feeds on the Jambon tree (*Eugenia jambolana*).—*A. Grote, Esq.*

FAM. HADENIDÆ.

Genus AGRIOPIS, Boisd.

AGRIOPIS LEPIDA, n. sp.

Male greyish white : fore wing with a subbasal and subapical ferruginous-brown patch, both irregularly bordered by a black line, the latter having inner blackish parallel lines crossing the disk ; a black dot between the patches ; exterior margin ferruginous brown, with a blackish dotted wavy marginal line, the dots being white exteriorly : hind wing white, with a pale brown exterior border. Cilia of both wings alternate pale brown and white.

Expanse $1\frac{5}{8}$ inch.

Bengal. In Coll. A. E. Russell.

A. DISCALIS, n. sp. (Pl. VII. fig. 2.)

Male and *female* greyish white: fore wing with basal, medial, and discal transverse pale brown lunulated lines, the medial and discal lines suffused with darker brown at their costal end, and joined by a black longitudinal irregular discal streak, forming a curved subapical streak; some blackish marks on the costa near the base, the furthest forming an interrupted transverse line: hind wing paler white, with broad pale brown exterior band; cilia alternate pale brown and white. Abdomen pale brown at the apex.

Expanse 2 inches.

Bengal. In Coll. A. E. Russell; F. Moore.

Genus PHLOGOPHORA, Ochs.

PHLOGOPHORA INDICA, n. sp.

Female pinkish fawn-colour: fore wing with a dark brown medial oblique band, above which the discal marks join at their base, with a blackish upper space between them; two subbasal minute spots, between which are two short transverse lines; a diffused streak ascending from near the base of posterior margin, two transverse discal lunulated lines brown, the outer line being medially bordered by dark brown, beyond which the margin is ashy: hind wing paler, with diffused dark marginal lines. Head, thorax, and abdomen pinkish fawn-colour.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell.

Genus EUPLEXIA, Steph.

EUPLEXIA ALBOVITTATA, n. sp. (Pl. VI. fig. 16.)

Male and *female* dark fuliginous black; exterior margin scalloped: fore wing with an irregular-margined partly transverse subbasal band, and a broad transverse discal band silky white, both with an anterior brownish mark, and the outer band speckled with brown; outer margin of orbicular and inner margin of reniform mark bordered with white; a row of brownish marginal lunules, the extreme scalloped margin being black: hind wing fuliginous; a streak and the cilia at anal angle and two small quadrate spots above white; cilia alternate brown and white. Head and thorax dark fuliginous black, speckled with white. Base of abdomen white, lower part fuliginous.

Expanse $1\frac{1}{2}$ inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

E. DISCISIGNATA, n. sp. (Pl. VI. fig. 9.)

Male and *female*. Fore wing pale yellowish green, the base and lower part of the disk varied with ferruginous brown and blackish speckles; an ashy-brown patch crossing the middle from the costa to below the cell, on the inside of which is an elongated oblique black pale-bordered spot, and on the outside is a similar but more irregular-

shaped spot, both being jet-black, the latter bordering the two inner sides of a white brown-speckled reniform mark; the disk transversely varied with brown streaks, the exterior margin being broadly ashy brown: hind wing pale brown, with a narrow marginal ferruginous line; two or three short white streaks ascending from near anal angle. Head and thorax ashy brown. Abdomen pale brown; tuft darker. Cilia dark brown.

Expanse, ♂ $1\frac{1}{3}$, ♀ $1\frac{2}{3}$ inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

E. STRIATOVIRENS, n. sp.

Male and *female* ferruginous brown: fore wing with a transverse basal sinuous line, two transverse discal lines, the posterior margin between the latter, and a submarginal streak from before the apex pale green, the space before the orbicular and reniform marks and beneath the last dusky brown; reniform mark chequered with white and green lines; exterior margin dusky brown: hind wing pale brown; two short white marginal streaks from anal angle. Head and thorax ashy brown. Abdomen pale brown.

Expanse, ♂ $1\frac{1}{3}$, ♀ $1\frac{2}{3}$ inch.

Darjeeling. In Coll. W. S. Atkinson; Brit. Mus.

Genus EUROIS, Hübn.

EUROIS AURIPLENA, Walk. Cat. Lep. Het. B. M. xi. Noct. p. 557.

E. CRASSIPENNIS, Walk. ib. p. 558.

Silhet.

Genus HADENA, Treit.

HADENA MEGASTIGMA, Walk. ib. xxxiii. Suppl. iii. p. 738.

Darjeeling.

II. ALBINOTA, n. sp.

Male greenish brown: fore wing with some marks at the base, along the costa, two transverse indistinct medial lunulated lines, and a zigzag submarginal line; a patch composed of the orbicular and reniform marks and a lower space, costal and exterior margins, pale green; a short pearly-white spot beneath the orbicular mark; a small ferruginous patch near the posterior angle: hind wing cupreous brown. Head and thorax greenish brown. Abdomen brown, with pale ferruginous tuft.

Expanse $1\frac{3}{4}$ inch.

Bengal. In Coll. A. E. Russell; F. Moore.

II. ATROVIRENS, n. sp.

Male and *female*. Fore wing dark green, with a blackish patch at the base of posterior margin, and another across the disk; some basal and discal marks, two medial transverse lines of lunules, submarginal diffused streaks, and zigzag marginal line black; the sub-

marginal streaks bordered within by ferruginous; orbicular and reniform marks large and green-centred: hind wing fuliginous brown, with a marginal and discal pale line. Head and thorax dark green, varied with brown. Abdomen brown; tuft in the male pale ferruginous.

Expanse, ♂ $1\frac{3}{5}$, ♀ $1\frac{1}{2}$.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

H. AUROVIRIDIS, n. sp. (Pl. VI. fig. 11.)

Male golden green: fore wing with a row of white spots with black borders along the costa; basal zigzag transverse line, two lines beneath the cell, orbicular mark, two zigzag discal lines, and a marginal wavy line white, the interspace of the basal line, lower discal, orbicular and reniform marks, and the outer submarginal line dark brown: hind wing pale cupreous brown, with whitish marginal line. Head and thorax brownish green. Abdomen brown.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell; F. Moore.

H. TENEBROSA, n. sp.

Male blackish brown: fore wing marked with numerous irregular longitudinal narrow black streaks; a small orbicular mark and an elongated apical patch dull ferruginous brown: hind wing blackish cupreous brown; cilia greyish brown. Head and thorax ferruginous brown, with numerous blackish-brown scales. Abdomen blackish brown; tuft ferruginous.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell.

H. ALBIDISCA, n. sp. (Pl. VI. fig. 17.)

Male. Fore wing pale ferruginous, suffused with greenish posteriorly; a white zigzag transverse basal and lunulated subbasal and discal lines; a zigzag marginal and a wavy marginal line white; the basal alternately patched, the subbasal exteriorly and the discal interiorly, the submarginal and marginal exteriorly bordered with black; middle of the disk suffused with blackish brown; orbicular mark black, bordered exteriorly with white; a large reniform mark and streak beneath it white: hind wing pale cupreous brown, with an indistinct spot and discal band; cilia pale ferruginous. Head and thorax ferruginous. Abdomen paler.

Expanse $1\frac{1}{8}$ inch.

Bengal. In Coll. F. Moore.

H. LANCEOLA, n. sp.

Female dull brownish green: fore wing with two subbasal transverse zigzag black double lines joined in the middle by a short streak, the outer line having a longitudinal pointed black-centred mark, forming a spear-head; orbicular and reniform marks black-centred; a transverse discal double row and a submarginal line of dusky lu-

nules: hind wing pale brown. Head and thorax dull greenish brown. Abdomen brown.

Expanse $1\frac{1}{3}$ inch.

Bengal. In Coll. F. Moore.

Genus CHECUPA, n. g., Moore.

Palpi stout, short, erect, covered with short adpressed hairs; third joint minute, conical. Antennæ minutely serrated. Proboscis short. Legs robust, densely clothed with short hairs; hind tibia with four elongated appendages. Body very robust; thorax thick, broad, densely pilose beneath. Abdomen elongated, flat, extending one-third beyond the hind wing, tufted; fourth, fifth, and sixth segments produced laterally, the fifth being prolonged into a hollow upright horn-like projection. Fore wing long; costa nearly straight; exterior and posterior margins rounded; no trace of angle. Hind wings trigonate; apex produced, rounded; abdominal angle lobed.

CHECUPA FORTISSIMA, n. sp. (Pl. VI. fig. 5.)

Male and female greenish black, brown beneath: fore wing with the base, large orbicular and reniform marks, a streak beneath, posterior and exterior margins golden green, slightly marked with short blackish transverse streaks; a submarginal and marginal row of longitudinal black streaks divided by a line of white lunules: hind wing cupreous brown. Head and thorax golden green. Abdomen brown, tipped with greenish. Legs green; tarsi brown.

Expanse $2\frac{2}{10}$ inches.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Genus SARBANISSA, Walk.

SARBANISSA INSOCIA, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii. p. 746.

Darjeeling (*W. S. Atkinson's Coll.*).

Fam. XYLINIDÆ.

Genus CUCULLIA, Ochs.

CUCULLIA TENUIS, n. sp.

Male blackish cupreous brown: fore wing elongated, very narrow, wrinkled apically; a small black spot near the base: hind wing pale cupreous brown. Palpi black. Head and thorax blackish cupreous, and abdomen pale cupreous brown.

Expanse $1\frac{1}{2}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Fam. HELIOTHIDÆ.

Genus HELIOTHIS, Guen.

HELIOTHIS ARMIGERA, Hübn. (Guen. Noct. ii. p. 181).

H. PELTIGERA, Treit. (Guen. Noct. ii. p. 180).

Fam. ACONTIDÆ.

Genus XANTHODES, Guen.

XANTHODES TRANSVERSA, Guen. Noct. ii. p. 211.

X. INTERSEPTA, Guen. ib. p. 212.

X. IMPELLENS, Walk. Cat. Lep. Het. B. M. xv. Noct. p. 1752.

X. INNOCENS, Walk. ib. p. 1752.

X. IMPARATA.

Xanthia imparata, Walk. ib. x. Noct. p. 467.

Genus CANNA, Walk.

CANNA PULCHRIPICTA, Walk. ib. xxxiii. Suppl. iii. p. 790, pl. 6. f. 10.

Darjeeling.

Genus ACONTIA, Ochs.

ACONTIA OLIVEA, Guen. Noct. ii. p. 217.

Bengal.

Larva feeds on the Brinjal (*Solanum melongena*).—*A. Grote, Esq.*

A. TROPICA, Guen. ib. p. 217.

A. SIGNIFERA, Walk. Cat. Lep. Het. B. M. xii. p. 793.

Calcutta (*W. S. Atkinson*).

Fam. ERASTRIDÆ.

Genus ERASTRIA, Ochs.

ERASTRIA ? VENULIA, Cram. Pap. Exot. ii. pl. 165. f. D.

Fam. ANTHOPHILIDÆ.

Genus ANTHOPHILA, Ochs.

ANTHOPHILA HÆMORRHOIDA.

Micra hemirhoda, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii. p. 799.

Anthophila roseifascia, Walk. ib. p. 803.

Fam. ERIOPIDÆ.

Genus CALLOPISTRIA, Hübn.

CALLOPISTRIA EXOTICA.

Eriopus exotica, Guen. Noct. ii. p. 294.

Darjeeling (*W. S. Atkinson*).

Fam. EURHIPIDÆ.

Genus ANUGA, Guen.

Syn. *Piada*, Walk.

ANUGA CONSTRICTA, Guen. Noct. ii. p. 308.

A. LUNULATA, n. sp.

Female greyish brown: fore wing with the costal half pale, the hinder half dark greyish brown, marked with numerous transverse darker brown lunules: hind wing dark greyish brown, whitish at the base; a ferruginous dark-bordered streak and contiguous spots from the anal angle. Body greyish brown.

Expanse $1\frac{3}{8}$ inch.

Bengal. In Coll. A. E. Russell.

Genus EUTELIA.

EUTELIA, sp?

Genus VARNIA, Walk.

VARNIA IGNITA, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii.
p. 825.

Silhet.

V. INÆQUALIS, Walk. ib. p. 828.

Silhet.

Fam. PLUSIDÆ.

Genus ABROSTOLA, Ochs.

ABROSTOLA SUBAPICALIS, Walk. ib. xii. Noct. p. 883.

Ingura recurrens, Walk. ib. xv. p. 1779.

Calcutta.

Genus PLUSIA, Ochs.

PLUSIA AURIFERA, Hübn. (Guen. Noct. ii. p. 335).

Larva found on common cabbage.

P. VERTICILLATA, Walk. Cat. Lep. Het. B. M. xii. Noct. p. 923.

Calcutta.

Larva found on geranium.—*A. Grote, Esq.*

P. AGRAMMA, Guen. Noct. ii. p. 327.

P. inchoata, Walk. Cat. Lep. Het. B. M. Suppl. iii. p. 841.

Larva feeds on the Kudadoo (*Lagenoica vulgaris*), apparently on the leaf-tendrils.—*A. Grote, Esq.*

P. SIGNATA, Fabr. (Guen. Noct. iii. p. 345).

P. FURCIFERA, Walk. Cat. Lep. Het. B. M. xii. p. 927.

P. ORNATISSIMA, Walk. ib. xv. p. 1786.

P. GEMMIFERA, Walk. Cat. Lep. Het. B. M. xii. p. 934.

P. SEMIVITTA, n. sp. (Pl. VI. fig. 13.)

Male and *female* greyish brown, paler beneath; fore wing slightly suffused with cupreous from middle of the costa and below the apex; an elongated slightly oblique longitudinal discal silvery mark, beneath which is an oblique square dark brown band bordered on each side by a pale line, the outer line extending upward to the costa before the apex: hind wing and abdomen pale cupreous brown. Head and thorax greyish brown, the latter with narrow brighter brown collar.

Expanse $1\frac{1}{8}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Fam. CALPIDÆ.

Genus *PLUSIODONTA*, Guen.

Syn. *Deva*, Walk.

PLUSIODONTA CHALSYTOIDES, Guen. Noct. ii. p. 360.

Deva conducens, Walk. Cat. Lep. Het. B. M. xii. Noct. p. 963. Calcutta.

Larva bred on *Clypea* and *Cissampelos*.—*A. Grote, Esq.*

Genus *ORÆSIA*, Guen.

ORÆSIA PROVOCANS, Walk. ib. p. 943.

Silhet.

O. RECTISTRIA, Guen. Noct. ii. p. 363.

O. EMARGINATA, Fabr. (Guen. ib. p. 363).

Genus *CALPE*, Treit.

CALPE MINUTICORNIS, Guen. ib. p. 374.

Fam. HYBLÆIDÆ.

Genus *HYBLÆA*, Fabr.

HYBLÆA PUERA, Cram. Pap. Exot. ii. pl. 103. f. D, E.

Larva reared on *Bignonia* and on *Callicarpa*.—*A. Grote, Esq.*

H. CONSTELLATA, Guen. Noct. ii. p. 391.

H. FIRMAMENTUM, Guen. ib. p. 392.

Genus *PHYCODES*, Guen.

Syn. *Tegna*, Walk.

PHYCODES HIRUNDINICORNIS, Guen. ib. p. 389.

Tegna hyblæella, Walk. Catal. Lep. Het. B. M. xxxv. Suppl. v. p. 1810.

Larva abundant on banyan (*Ficus indica*).—*A. Grote, Esq.*

Fam. GONOPTERIDÆ.

Genus COSMOPHILA, Boisd.

COSMOPHILA XANTHINDYMA, Boisd. (Guen. Noct. ii. p. 396).

Cirradia variolosa, Walk. Cat. Lep. Het. B. M. xii. p. 750.

Larva feeds on *Hibiscus*.—A. Grote, Esq.

Genus ANOMIS, Hübn.

ANOMIS FULVIDA, Guen. Noct. ii. p. 397.

A. GUTTANIVIS.

Gonitis guttanivis, Walk. Cat. Lep. Het. B. M. xiii. p. 1003.

Genus OSSONOBIA, Walk.

OSSONOBIA TORPIDA, Walk. ib. xxxv. Suppl. v. p. 1966.

Remark.—The genus *Ossonobia* is closely allied to *Scoliopteryx*, Germ. (*Gonoptera*, Latr.).

Fam. AMPHIPYRIDÆ.

Genus AMPHIPYRA, Ochs.

AMPHIPYRA MONOLITHA, Guen. Noct. ii. p. 414.

Genus NÆNIA, Steph.

NÆNIA CUPREA, n. sp.

Male blackish cupreous brown, chalybeate-washed; fore wing with three or four short coppery-red costal bars with black borders; costal and discoidal vein coppery red; orbicular and reniform marks with a narrow yellowish border, the space before each and spot beneath black; one basal and two medial irregular transverse lunulated double black lines; a submarginal and a wavy marginal coppery line, the former bordered within by a row of broad black lunules; hind wing pale cupreous brown. Head and thorax blackish brown varied with ferruginous. Abdomen greyish brown, tips ferruginous. Cilia of hind wing pale ferruginous.

Expanse $2\frac{1}{8}$ inches.

Bengal. In Coll. A. E. Russell.

N. CHALYBEATA, n. sp.

Female blackish cupreous brown: fore wing with numerous chalybeate speckles; the discal veins lined with chalybeous; a basal and subbasal zigzag chalybeate line, a discal and submarginal lunulated chalybeate line, each with a dark border; exterior margin chalybeous; orbicular and reniform marks dark, centred with chalybeate speckles, reniform mark large and with a copper-coloured border; hind wing dull pale cupreous brown, with a narrow whitish marginal

band ; cilia brown, speckled with white. Head and thorax blackish brown. Abdomen brown.

Expanse $2\frac{2}{3}$ inches.

Bengal. In Coll. F. Moore.

Fam. TOXOCAMPIDÆ.

Genus TOXOCAMPA, Guen.

TOXOCAMPA TETRASPILA.

Remigia tetraspila, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii.
p. 1018.
Darjeeling.

T. COSTIMACULA, Guen. Noct. ii. p. 429.

Remigia triangulata, Walk. ib. p. 1017.
Silhet.

Fam. POLYDESMIDÆ.

Genus PANDESMIA, Guen.

Syn. *Cerbia*, Walk.

PANDESMIA QUÉNAVADI, Guen. Noct. ii. p. 438.
Silhet.

Genus POLYDESMIA, Boisd.

POLYDESMIA BOARMOIDES, Guen. Noct. ii. p. 441.

Alamis brevialpis, Walk. Cat. Lep. Het. B. M. xiii. p. 1051.

P. SCRIPTILIS, Guen. Noct. ii. p. 442.
Silhet.

P. OTIOSA, Guen. ib. p. 442.
Silhet.

Fam. HOMOPTERIDÆ.

Genus ALAMIS, Guen.

ALAMIS ALBICINCTA, Guen. Noct. iii. p. 4.

A. OPTATURA.

Remigia optatura, Walk. Cat. Lep. Het. B. M. xv. p. 1848.

A. CONTINUA, Walk. ib. xxxiii. Suppl. iii. p. 877.

A. GLAUCINANS, Guen. Noct. iii. p. 6.

Genus HOMOPTERA, Boisd.

HOMOPTERA INFLIGENS, Walk. l. c. xiii. Noct. p. 1068.

Fam. HYPOGRAMMIDÆ.

Genus BRIADA, Walk.

BRIADA PRÆCEDENS, Walk. Cat. Lep. Het. B. M. xiii. p. 1098.

B. VARIANS, n. sp. (Pl. VI. fig. 12.)

Female blackish brown: fore wing with transverse basal, subbasal, and discal black-bordered yellow wavy narrow lines; reniform mark elongated, yellowish, with black centre; space beyond the discal line golden yellow, margined by a transverse pure-white narrow line, outside of which is a blackish pale-bordered transverse streak interrupted in the middle by a suffused streak proceeding to the middle of exterior margin: hind wing and abdomen greyish brown; cilia with pale inner line. Head and thorax ferruginous brown.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell; F. Moore.

B. CERVINA, Walk. ib. xxxv. Suppl. v. p. 1968.

Genus CALLYNA, Guen.

CALLYNA SIDEREA, Guen. Noct. i. p. 113.

Silhet.

C. MONOLEUCA, Walk. *l. c.* xv. p. 1667.

Darjeeling (*W. S. Atkinson*).

Fam. CATEPHIDÆ.

Genus COCYTODES, Guen.

COCYTODES CÆRULEA, Guen. Noct. iii. p. 41.

Silhet.

C. MODESTA, Van der Hoeven, Léop. Nouv. pl. 7. f. 8.

C. immodesta, Guen. Noct. iii. p. 42.

Genus CATEPHIA, Ochs.

CATEPHIA LINTEOLA, Guen. ib. p. 44.

Genus ERCHEIA, Walk.

ERCHEIA TENEBROSA, n. sp.

Male blackish brown: fore wing with an elongated curved ferruginous apical streak, which is margined and marked with black lines; reniform mark and a parallel line beyond dull ferruginous; posterior margin broadly ferruginous, with numerous dark speckles, the division of colour marked by a black irregular line; a black wavy line and some irregular streaks ascending from before the posterior angle: hind wing fuliginous black, with two white spots from above anal angle; cilia with two elongated white streaks. Underside whitish

testaceous: fore wing streaked with black on posterior margin; broad transverse discal and submarginal blackish bands: hind wing with discal spot, an irregular sinuous narrow medial and broad submarginal band; exterior border of both wings with short longitudinal blackish streaks and marginal row of dots; cilia as above.

Expanse $2\frac{1}{2}$ inches.

Bengal. In Coll. A. E. Russell.

Remark.—This insect is very much like *Achæa subsignata*, from Sierra Leone.

Genus ANOPHIA, Guen.

ANOPHIA ACRONYCTOIDES, Guen. Noct. iii. p. 47.

Genus ERYGIA, Guen.

Syn. *Calicula*, Walk.

ERYGIA APICALIS, Guen. Noct. iii. p. 50.

Calicula exempta, Walk. Cat. Lep. Het. B. M. xv. p. 1808.

Genus ODONTODES, Guen.

ODONTODES BOLINOIDES.

Briada bolinoides, Walk. ib. Noct. p. 1802.

Steiria subfasciata, Walk. ib. Suppl. iii. p. 922.

S. quadristriata, Walk. ib. p. 923.

—? *inordinata*, MS. B. M. Cabinet.

Genus STICTOPTERA, Guen.

STICTOPTERA ILLUCIDA, Walk. l. c. p. 918.

Calcutta (*W. S. Atkinson*).

S. GRISEA, n. sp.

Male greyish brown: fore wing speckled with grey at the base, medially, and along exterior margin; orbicular and reniform marks black; a black spot below and a transverse wavy line beyond the former, and a similar line beyond the latter, exterior to which is a submarginal recurved interrupted series of grey inner-bordered black lunules, and a marginal row of blacker lunulated spots: hind wing diaphanous, purplish grey, with a broad marginal brown band. Head and collar on thorax ferruginous brown; thorax greyish brown. Abdomen brown.

Expanse $1\frac{5}{8}$ inch.

Darjeeling. In Coll. W. S. Atkinson.

Fam. HYPOCALIDÆ.

Genus HYPOCALA, Guen.

HYPOCALA DEFLORATA, Fabr. (Guen. Noct. iii. p. 76).

H. EFFLORESCENS, Guen. Noct. iii. p. 77.

H. ROSTRATA, Fabr. (Guen. ib. p. 74).

H. SUBSATURA, Guen. ib. p. 75.

Fam. CATOCALIDÆ.

Genus CATOCALA, Ochs.

CATOCALA NEPCHA, n. sp.

Fore wing ferruginous brown; basal half with irregular-shaped black marks; a square white spot closing the cell, adjoining which is a narrow transverse white band bordered within with black; a sub-marginal series of triangular black spots; and a marginal series of black lunules with grey inner borders; cilia greyish brown; hind wing ochreous yellow, with broad black marginal band; cilia greyish brown, spotted with greyish white. Underside—fore wing yellow at the base; the rest black, with a broad medial large white patch and a smaller one beneath it at the posterior angle: hind wing as above, but with a broad white medial patch having a black inner streak from anterior margin. Antennæ yellow. Head black. Thorax ferruginous brown. Abdomen yellow, with dorsal and lateral row of blackish-brown spots.

Expanse $2\frac{3}{4}$ inches.

Darjeeling. In Coll. A. Grote, Esq.

C. DOTATA, Walk. Cat. Lep. Het. B. M. xiii. p. 1212.

Fam. OPHIDERIDÆ.

Genus OPHIDERES, Boisd.

OPHIDERES MATERNA, Linn. (Cram. Pap. Exot. ii. pl. 174. f. B, pl. 267. f. E).

O. FULLONICA, Linn. (Guen. Noct. iii. p. 111).

Noctua dioscoreæ, Fab. Sp. Ins. ii. p. 212.

Phalæna-Noctua pomona, Cram. pl. 77. f. C.

O. CAJETA, Cram. Pap. Exot. i. pl. 3. f. A-C.

O. SALAMINIA, Cram. ib. ii. pl. 174. f. A.

O. HYPERMNESTRA, Cram. ib. iv. pl. 323. f. A, B.

O. PLANA, Walk. Cat. Lep. Het. B. M. xiii. p. 1226.

Fam. PHYLLODIDÆ.

Genus PHYLLODES, Boisd.

PHYLLODES CONSOBRINA, Westw. Cab. Orient. Ent. pl. 28. f. 2.

P. USTULATA, Westw. ib. pl. 28. f. 1.

P. FASCIATA, n. sp.

Male greenish brown: fore wing with a dark brown line from the apex to beneath an irregular elongated transverse discal pale mark; a short basal, two discal, and a third subapical transverse glossy-purple diffused bands, the discal band bordering the lower margin of the apical line and being confluent on the hind margin of the wing: hind wing plain brown exteriorly, the discal portion being black and having a broad irregular transverse orange-yellow band. Head and front of thorax ferruginous; hind part of thorax and abdomen plain brown.

Expanse $5\frac{1}{2}$ inches.

Bengal. In Coll. A. E. Russell.

Genus *POTAMOPHORA*, Guen.

POTAMOPHORA MANLIA, Cram. Pap. Exot. i. pl. 92. f. A.

Genus *LYGNIODES*, Guen.

LYGNIODES HYPOLEUCA, Guen. Noct. iii. p. 125.

L. CILIATA, n. sp.

Male. Both wings of a uniform blackish velvety brown, bordered by well-defined cream-coloured cilia. Underside duller brown, with a discal line of ill-defined white-speckled spots, and a submarginal row of blackish spots, each bordered with a dentiform white mark; a blackish subbasal spot on both wings, and a white subapical spot on fore wing. Cilia as above.

Expanse 3 inches.

Bengal. In Coll. A. E. Russell.

Fam. *EREBIDÆ*.Genus *OXYODES*, Guen.

OXYODES CLYTIA, Cram. Pap. Exot. iv. pl. 399. f. 9.

Genus *SYRNA*, Guen.

SYRNA ALBILINEA, Walk. Cat. Lep. Het. B. M. xiv. p. 1261.

Silhet.

S. CÆLISPARSA, Walk. ib. p. 1262.

Assam.

S. CURVILINEA, n. sp. (Pl. VI. fig. 4.)

Female ferruginous brown: fore wing to the middle blackish ferruginous brown, marked with three very narrow transverse white lines, the first and second lines curved inward, the third obliquely straight and interrupted by an elongated constricted reniform mark; the second and third line is inwardly bordered by a similar lunulated

line, the interspace with a white discal dot, and in some specimens partly suffused with pale purplish white; a dark irregular submarginal ill-defined band which is medially confluent with the exterior margin, bordered without by a transverse sinuous black line; a marginal row of white-marked black dots: hind wing greyish cupreous brown, with decreasing pale ferruginous-brown black-bordered anal streaks, and marginal blackish white-marked dots; cilia ferruginous brown, with pale inner line. Underside dull ferruginous brown. Both wings with two transverse indistinct discal bands; a marginal row of black dots.

Expanse $2\frac{1}{8}$ inches.

Bengal. In Coll. A. E. Russell; F. Moore.

S. RECTILINEA, n. sp.

Male dark testaceous brown: fore wing with a medial darker brown oblique transverse band, straightly bordered on each side by a double slightly wavy white line, the outer line interrupted by a constricted reniform white mark; basal line white, indistinct; an irregular submarginal ill-defined dark band bordered without by a blackish sinuous line; a marginal row of white slightly black-marked dots: hind wing with a broad submarginal blackish decreasing band and two narrow inner lines; a marginal row of black-marked white dots; cilia with pale inner line. Underside with broad submarginal diffused dusky band, and inner pale-bordered black inner band; a pale-bordered black discal spot on hind wing; a marginal row of black dots.

Expanse $2\frac{1}{8}$ inches.

Bengal. In Coll. A. E. Russell.

S. CYANIVITTA, n. sp.

Male dark ferruginous brown: fore wing with an oblique transverse bluish-grey band, bordered on each side by a pale line, the outer line broken by a narrow reniform mark; subbasal line indistinct; an ill-defined transverse submarginal greyish-brown band irregularly bordered exteriorly by a black sinuous line; a narrow marginal bluish-grey sinuous line, the inner points being but slightly tipped with black: hind wing greyish cupreous brown, with a slight short white-bordered black streak from anal angle, and a narrow wavy marginal line; cilia ferruginous brown. Underside uniform brown.

Expanse $2\frac{1}{8}$ inches.

Bengal (*Sherwill*). In Coll. F. Moore.

Genus TAVIA, Walk.

TAVIA SUBSTRUENS, Walk. Cat. Lep. Het. B. M. xiv. p. 1276.

T. PUNCTOSA, Walk. ib. xxxiii. Suppl. iii. p. 939.

T. DUBITARIA, Walk. ib. p. 939.

T. CALIGINOSA, Walk. ib. p. 940.

T. ALBILINEA, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii. p. 940.

T. SUBMARGINATA, Walk. ib. p. 941.

T. BIOCULARIS, n. sp.

Male dark purplish fawn-colour: fore wing with several transverse undulating chalybeous-bordered black lunulated lines; submarginal points yellowish, black-marked, the lower white; costal dots yellowish; orbicular spot small, black-bordered, and with whitish centre; reniform spot prominent, circular, composed of black outer border, inner pure-white ring, and orange-yellow centre, and having a white dot above and below it: hind wing purple brown, slightly suffused with chalybeous.

Expanse 2 inches.

Bengal. In Coll. A. E. Russell.

T. CATOCALOÏDES, n. sp. (Pl. VII. fig. 3.)

Male ferruginous grey: fore wing with two very undulating transverse double lunulated brown lines—the first subbasal, the other beyond the middle, with the space between ferruginous and covered with short transverse blackish striæ; orbicular and reniform marks pale; a similar-coloured band across the disk, bordered without by a blackish line, which is nearly confluent in the middle with the exterior margin; submarginal spots large, brownish white and blackish-bordered: hind wing ferruginous yellow, from the base to the middle ferruginous brown, bordered by a black outer band; a broad submarginal discal band, blackish anteriorly, but formed of blackish-ferruginous striæ posteriorly; submarginal spots hardly apparent, being replaced by a blackish lunulated line; cilia interlined. Under-side ferruginous yellow: fore wing with three short medially transverse diffused black bands: hind wing with diffused discal and two narrow medial bands and large discal spot black; submarginal dots black; cilia blackish.

Expanse 3 inches.

Bengal (*Sherwill*). In Coll. F. Moore.

Genus ANISONEURA, Guen.

ANISONEURA SALEBROSA, Guen. Noct. iii. p. 161.

Silhet.

A. HYPOCYANA, Guen. ib. p. 162.

Silhet.

Fam. OMMATOPHORIDÆ.

Genus SPEIREDONIA, Hübn.

SPEIREDONIA FEDUCIA, Stoll, Cram. Pap. Exot. Suppl. v. pl. 36. f. 3.

Silhet.

S. ZAMIS, Stoll, Cram. Pap. Exot. Suppl. v. pl. 36. f. 11.
Silhet.

S. RETRAHENS, Walk. Cat. Lep. Het. B. M. xiv. p. 1294.
Sericia parvipennis, Walk. ib. p. 1297.

Genus PATULA, Guen.

PATULA MACROPS, Linn. (Cram. Pap. Exot. ii. pl. 171. f. A, B).
Noctua lupo, Fabr. (Donov. Ins. China, pl. . f. 1).

P. BOOPIS, Guen. Noct. iii. p. 178.
Silhet.

Genus ARGIVA, Hübn.

ARGIVA HIEROGLYPHICA, Drury, Ins. Exot. ii. pl. 2. f. 1; Don.
Ins. Ind. pl. 54. f. 2.

Phalæna mygdonia, Cram. pl. 174. f. F.
P. hermonia, Cram. pl. 74. f. E.

A. CAPRIMULGUS, Fabr. (Guen. Noct. iii. p. 180).

Genus NYCTIPAO, Hübn.

NYCTIPAO CREPUSCULARIS, Linn. (Clerck, Icon. pl. 53. f. 1-4;
Cram. ii. pl. 159. f. A, pl. 160. f. A).

N. GEMMANS, Guen. Noct. iii. p. 182.
Silhet.

N. GLAUCOPIS, Walk. Cat. Lep. Het. B. M. xiv. p. 1306.
Silhet.

N. OBLITERANS, Walk. ib. p. 1307, ♂.
N. exterior, Walk. ib. p. 1306, ♀.

Genus OMMATOPHORA, Guen.

OMMATOPHORA LUMINOSA, Cram. Pap. Exot. iii. pl. 274. f. D.

Fam. HYPOPYRIDÆ.

Genus SPIRAMA, Guen.

SPIRAMA HELICINA.

Spiredonia helicina, Hübn. Samml. exot. Schmett. iii. f. 437-8.

S. COHERENS, Walk. Cat. Lep. Het. B. M. xxiv. p. 1321.
? *S. retorta* (Linn.).

S. TRILOBA, Guen. Noct. iii. p. 197.
Hypopyra mollis, Guen. ib. p. 198.

Genus HYPOPYRA, Guen.

Syn. *Maxula*, Walk.

HYPOPYRA VESPERTILIO, Fabr. (Guen. Noct. iii. p. 199).

H. FENISECA, Guen. ib. p. 200.

Silhet.

H. OSSIGERA, Guen. ib. p. 201.

H. UNISTRIGATA, Guen. ib. p. 201, pl. 21. f. 1.

Maxula idonea, Walk. Cat. Lép. Het. B. M. xiv. Noct. p. 1327 ;
xxxiii. Suppl. iii. p. 1096.*Angerona poeusaria*, Walk. ib. xx. Geometr. p. 243.

Genus HAMODES, Guen.

HAMODES AURANTIACA, Guen. Noct. iii. p. 203.

Genus ENTOMOGRAMMA, Guen.

ENTOMOGRAMMA FAUTRIX, Guen. Noct. iii. p. 204.

Genus BEREGRA, Walk.

BEREGRA REPLENENS, Walk. *l. c.* xiv. p. 1315.

Fam. BENDIDÆ.

Genus HULODES, Guen.

HULODES CARANEA, Cram. Pap. Exot. iii. pl. 269. f. E, F.

H. RESTORENS.

Hypopyra restorens, Walk. Cat. Lep. Het. B. M. xiv. p. 1328.? *Hulodes drylla*, Guen. Noct. iii. p. 209, pl. 24. f. 10.

H. INANGULATA, Guen. ib. p. 210.

Silhet.

H. PALUMBA, Guen. ib. p. 211.

Remigia colligens, Walk. *l. c.* xxxiii. Suppl. iii. p. 1019.

Fam. OPHIUSIDÆ.

Genus SPHINGOMORPHA, Guen.

SPHINGOMORPHA CHLOREA, Cram. Pap. Exot. ii. pl. 104. f. C.

S. sipyla, Guen. Noct. iii. p. 222.

Genus IONTHA, Doubleday.

IONTHA UMBRINA, Doubleday, Entomologist, p. 298.

Silhet.

Genus LAGOPTERA, Guen.

LAGOPTERA HONESTA, Hübn. Samml. exot. Schmett. ii. Noct. iii. 1. f. 1, 2.

Balasure.

L. MAGICA, Hübn. ib. iii. f. 535.

Maungbhoom.

L. DOTATA, Fabr. (Van der Hoeven, Léop. Nouv. pl. 4. f. 3).

Genus OPHIODES, Guen.

OPHIODES TRAPEZIUM, Guen. Noct. iii. p. 231.

O. SEPARANS, Walk. Cat. Lep. Het. B. M. xiv. p. 1357.

O. TRIPHLENOIDES, Walk. ib. p. 1358.

O. CUPREA, n. sp.

Female greyish cupreous brown; luteous and glossy beneath: fore wing numerously studded with black scales; two transverse pale luteous lines, which are widely separate on the costa, but contiguous on the hind margin; reniform spot brown, with a pale luteous line; a transverse submarginal less distinct luteous line terminated anteriorly by two jet-black dentate spots; cilia brown, with a narrow pale inner line: hind wing luteous brown, with a cupreous gloss; exterior border dark brown; cilia luteous.

Expanse 2 inches.

Bengal (*Sherwill*). In Coll. F. Moore.

Genus OPHISMA, Guen.

OPHISMA GRAVATA, Guen. Noct. iii. p. 237.

O. MATURESCENS, Walk. Cat. Lep. Het. B. M. xiv. p. 1382.

Genus COTUZA, Walk.

Syn. *Ginea*, Walk.; *Sympis*, part., Guen.

COTUZA UMMINIA.

♀. *Phal. Noctua umminia*, Cram. Pap. Exot. iii. pl. 267. f. F.

Ophisma umminia, Walk. Cat. Lep. Het. B. M. xiv. p. 1384.

♀. *Sympis subunita*, Guen. Noct. iii. p. 344; Walk. l. c. xv. p. 1549.

♂. *Cotuzza drepanoides*, Walk. ib. p. 1552.

♀. *Ginea removens*, Walk. ib. p. 1638.

Remark.—The larva of *C. umminia* differs considerably from that of *Sympis rufibasis*, and is very similar in appearance to the larva of the genus *Naxia*.

C. DEFICIENS. (Pl. VII. fig. 1.)

Ophisma deficiens, Walk. ib. xiv. p. 1383.

Remigia perfidiosa, Walk. Cat. Lep. Het. B. M. xiv. p. 1511.
Ophisma cumulifera, Walk. MS. B. M. Coll.

Genus HEMEROBLEMMA, Hübn.

HEMEROBLEMMA PEROPACA, Hübn. Samml. exot. Schmett. iii. f. 541-2.

Ophisma latabilis, Guen. Noct. iii. p. 241.

Genus ACHÆA, Hübn.

ACHÆA MELICERTE, Drury, Ins. i. pl. 23. f. 1; Cram. Pap. Exot. iv. pl. 323. f. C, D.

A. MERCATORIA, Fabr. (Cram. Pap. Exot. iv. pl. 323. f. E).

Genus SERRODES, Guen.

SERRODES CAMPANA, Guen. Noct. iii. p. 252.

Genus NAXIA, Guen.

NAXIA CIRCUMSIGNATA, Guen. ib. p. 255.
 Silhet.

N. ONELIA, Guen. ib. p. 258.

Ophiusa obumbrata, Walk. l. c. xxxiii. Suppl. iii. p. 969.
O. umbrosa, Walk. ib. p. 968.

N. CALEFACIENS, Walk. ib. xiv. p. 1405.

N. CALORIFICA, Walk. ib. p. 1406.
 Silhet.

Genus CALESIA, Guen.

CALESIA COMOSA, Guen. Noct. iii. p. 258.

C. GASTROPACHOIDES, Guen. ib. p. 258.

Genus HYPÆTRA, Hübn.

HYPÆTRA NOCTUOIDES, Guen. Noct. iii. p. 259.
 Silhet.

II. GAMMOIDES.

Trigonodes gammoïdes, Walk. l. c. xv. p. 1833.
Poaphila hamata, Walk. MS. B. M. Coll.

Genus ATHYRMA, Hübn.

ATHYRMA POLYSPILA, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii. p. 966.
 Silhet.

A. DIVULSA, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii. p. 966. Silhet.

A. TESSELLATA, n. sp.

Male greyish brown : fore wing with a large patch from the base to the middle and a broad transverse discal band blackish brown, bordered by a pale yellow narrow line, the space between them being grey, the former intersected by an irregular-quadriform narrow yellow line, and the latter crossed by yellowish and traversed in its entire length by a nearly straight line terminating near the produced angle of the former ; a marginal row of similar-coloured dentiform spots bordered with a narrow pale yellow line : hind wing greyish brown. Head and thorax blackish brown, narrowly fringed with pale yellow. Abdomen grey. Cilia spotted with brown.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell.

Genus OPHIUSA, Guen.

O. MYOPS, Guen. Noct. iii. p. 265.

O. SIMILLIMA, Guen. ib. p. 266.
Silhet.

O. JOVIANA, Cram. Pap. Exot. iv. pl. 399. f. B.

O. ALBIVITTA, Guen. Noct. iii. p. 271.

O. ACHATINA, Sulz. Ins. pl. 22. f. 4 ; Cram. Pap. Exot. iii. pl. 288. f. A.

O. FULVOTENIA, Guen. Noct. iii. p. 272.
Silhet.

O. ARCTOTENIA, Guen. ib. p. 272.
Silhet.

O. STUPOSA, Fabr. (Cram. Pap. Exot. pl. 273. f. E, nec pl. 288. f. A).
Silhet.

Genus GRAMMODES, Guen.

GRAMMODES STOLIDA, Fabr. (Guen. Noct. iii. p. 276).

G. AMMONIA, Cram. Pap. Exot. iii. pl. 250. f. D.

G. MYGDON, Cram. ib. ii. pl. 156. f. G.

G. NOTATA, Fabr. (Walk. Cat. Lep. Het. B. M. xiv. p. 1445).

Genus FODINA, Guen.

FODINA ORIOIUS, Guen. Noct. iii. p. 274.

F. PULLULA, Guen. ib. p. 275.

Fam. EUCLIDIDÆ.

Genus TRIGONODES, Guen.

TRIGONODES HYPPASIA, Cram. Pap. Exot. iii. pl. 250. f. E.

Fam. REMIGIDÆ.

Genus REMIGIA, Guen.

REMIGIA ARCHESIA, Cram. Pap. Exot. iii. pl. 273. f. F, G, ♀.

Ph. Noct. virbia, Cram. ib. f. II, ♂.*Remigia bifasciata*, Walk. Cat. Lep. Het. B. M. Suppl. iii. p. 1014.

R. FRUGALIS, Fabr. (Guen. Noct. iii. p. 314).

Chaleiope lycopodia, Geyer, Zutr. Exot. Schmett. 25. f. 897.

Genus FELINIA, Guen.

FELINIA TERMINIGERA, Walk. l. c. xv. p. 1850.

F. SPISSA, Guen. Noct. iii. p. 322.

Silhet.

Tribe PSEUDO-DELTOIDES.

Fam. THERMESIDÆ.

Genus SYMPIS, Guen.

SYMPIS RUFIBASIS, Guen. Noct. iii. p. 344.

Silhet. In Coll. A. Grote, Esq.

Larva feeds on the Lichee (*Nephelium litchi*); pupa within rolled end of leaf.

Genus THERMESIA, Hübn.

THERMESIA CREBERRIMA, Walk. Catal. Lep. Het. B. M. xv. p. 1574.

Silhet.

T. PRÆCIPUA, Walk. ib. xxxiii. Suppl. iii. p. 1056.

Silhet.

T. ARENACEA, Walk. ib. p. 1056.

Silhet.

T. CONSOCIA, Walk. ib. p. 1057.

Silhet.

T. RETICULATA, Walk. ib. p. 1062.

Drepanodes scitaria, Walk. ib. xxvi. Geom. p. 1488.*Anisodes pyrinata*, Walk. ib. p. 1582.Darjeeling (*W. S. Atkinson*).Larva feeds on *Eleocarpus serratus*.—A. Grote, Esq.

Genus AZAZIA, Walk.

AZAZIA RUBRICANS.

Ophiusa rubricans, Boisd. (Guen. Noct. iii. p. 356).

Azazia rubricans, Walk. Cat. Lep. Het. B. M. xv. p. 1576.

Thermesia transducta, Walk. ib. xxxiii. Suppl. iii. p. 1058.

Genus SELENIS, Guen.

Syn. *Mestleta*, Walk.

SELENIS IRRECTA, Walk. ib. p. 1066.

Selenis niviapex, Walk. ib. p. 1069.

S. ABRUPTA.

Mestleta abrupta, Walk. ib. p. 829.

Larva feeds on *Zizyphus*, apparently only on the flowers.—*A. Grote, Esq.*

Genus MARMORINIA, Guen.

MARMORINIA SINGHA, Guen. Noct. iii. p. 372.

Silhet.

M. SHIVULA, Guen. ib. p. 372.

Silhet.

Genus MECODINA, Guen.

MECODINA LANCEOLA, Guen. ib. p. 373.

Silhet.

Genus SINGARA, Walk.

SINGARA DIVERSALIS, Walk. *l. c.* p. 1113.

Silhet.

Genus HYPERNARIA, Guen.

HYPERNARIA DISCISTRIGA, n. sp.

Female dull yellowish ferruginous, brownish apically, minutely irrorated with blackish scales: fore wing with an oblique brown line crossing both wings from the apex to the middle of abdominal margin, the line bordered within with ferruginous and a pale inner margin; three short costal diffused dusky streaks, and lunulated discal mark, before the latter is a black dot. Head and front of thorax blackish. Underside brighter-coloured, with two oblique lunulated dusky lines crossing both wings.

Expanse $2\frac{3}{8}$ inches.

Bengal. In Coll. A. E. Russell.

Remark.—This insect has much the appearance of *Ophisma atticola*, Walk. Cat. Lep. B. M. p. 1383.

Genus FASCELLINA, Walk.

FASCELLINA CHROMATARIA, Walk. Cat. Lep. Het. B. M. xx. Geometr. p. 215.

Nysis lata, Walk. MS. B. M. Coll.

F. VIRIDIS, n. sp. (Pl. VII. fig. 4.)

Female green, paler beneath, the hind wing being yellow: fore wing with a discal spot, oblique streak beneath, and a broad exterior patch from below the apex brown, the latter with a curved transverse discal narrow ferruginous-brown chain-like band: hind wing with a straight transverse band and a narrow curved discal line of ferruginous brown. Head and thorax green. Abdomen pale ferruginous brown. Underside—both wings basally and the hind wing exteriorly minutely striated with purplish brown: fore wing with an exterior dark purple-brown patch having a small yellow spot near posterior angle, along its inner margin is a transverse narrow black-bordered silvery lunulated line terminating before the costa: hind wing with a straight purple-brown band and curved line as above.

Expanse $1\frac{4}{5}$ inch.

Bengal. In Coll. F. Moore.

Fam. FOCILLIDÆ.

Genus ZETHES, Ramb.

ZETHES XYLOCHROMA, Walk. Cat. Lep. Het. B. M. xv. p. 1525. Silhet.

Z. PERTURBANS, Walk. ib. p. 1525.

Silhet.

Genus PHALACRA, Walk.

PHALACRA METAGONARIA, Walk. ib. xxxv. Suppl. v. p. 1639.

Larva in strong web in rolled leaf. Feeds on dates.—*A. Grote, Eq.*

Genus THYRIDOSPILA, Guen.

THYRIDOSPILA SPHERIPHORA, n. sp.

Female greyish fawn-colour: fore wing with two medial transverse ill-defined black narrow sinuous lines, each curved inward to the costa; between the bands is a parallel medial diffused blackish line passing the reniform mark; a triangular reddish-brown patch before the apex, which also descends the submargin; orbicular and reniform spots semitransparent and yellowish; orbicular spot with a small attached upper portion; reniform spot transversely narrow, bent in the middle and joined at each end to a semicircular blackish line; a submarginal row of blackish points and marginal row of lunules: hind wing reddish brown exteriorly; three indistinct narrow blackish transverse sinuous lines; cilia edged with grey. Underside

paler, specked with brown : fore wing somewhat ferruginous ; markings as above ; the transverse lines with diffused greyish outer borders. Legs grey, brown-speckled.

Expanse $1\frac{5}{8}$ inch.

Bengal. In Coll. A. E. Russell ; F. Moore.

Genus PHURYS, Guen.

PHURYS OBLIQUA, n. sp.

Male brownish fawn-colour : fore wing with a blackish streak obliquely from the apex to the middle of the posterior margin, where it is the widest ; two short oblique subbasal reddish-brown streaks, a similar undulating streak bordering each side of the black one, beyond which are two other dusky streaks ; a small discal dot and reniform spot reddish brown : hind wing with five transverse dusky brown streaks, the second and fourth pale-bordered ; cilia with a pale inner line. Head and front of thorax reddish brown. Abdomen greyish brown.

Expanse $1\frac{7}{8}$ inch.

Bengal. In Coll. A. E. Russell.

P. STRIGATA, n. sp.

Female pale yellowish testaceous : fore wing with a narrow pale transverse line broadly bordered externally with brown from before the apex to before the middle of posterior margin, the rest of the wing covered with transverse lines of delicate brown strigæ ; a marginal row of brown dots : hind wing brownish basally, dark brown from the apex, the anal angle with short brown strigæ. Underside brighter-coloured, with delicate short strigæ ; both wings with a blackish discal spot and a suffused blackish-brown submarginal band, which on the fore wing branches out to the exterior margin.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. F. Moore.

Genus EGNASIA, Walk.

EGNASIA EPHYRODALIS, Walk. Cat. Lep. Het. B. M. xvi. Delt. p. 217.

E. TRIMANTESALIS, Walk. ib. p. 220.

Darjeeling.

E. VAGA.

Thermesia vaga, Walk. ib. xxxiii. Suppl. iii. p. 1057.

Silhet.

Fam. AMPHIGONIDÆ.

Genus LACERA, Guen.

LACERA CAPELLA, Guen. Noct. iii. p. 337.

Genus AMPHIGONIA, Guen.

AMPHIGONIA COMPRIMENS, Walk. Cat. Lep. Het. B. M. xv. p. 15-40.
Silhet.

Tribe DELTOIDES.

Fam. PLATYDIDÆ.

Genus EPISPARIS, Walk. Cat. x. p. 476 (1856).

Syn. *Neviasca*, Walk. (1858); *Pradiota*, Walk. (1866).

EPISPARIS VARIALIS.

Neviasca variialis, Walk. Cat. Lep. Het. B. M. xvi. Delt. p. 7.
Episparis signata, Walk. ib. xxxiii. Suppl. iii. p. 1032.

E. SEJUNCTALIS.

Pradiota sejunctaria, Walk. ib. xxxiv. Suppl. iv. p. 1572.
P. ennomocoides, Walk. MS. B. M. Coll.

E. TORTUOSALIS, n. sp. (Pl. VII. fig. 5.)

Male purplish brown above, greyish brown anteriorly; numerous marked with short narrow black strigæ: fore wing with two medial transverse dark purple-brown narrow bands, the inner one bent outwardly in the middle, the exterior band broadly elbowed outwards and then retracting to the costa; both bands with a narrow whitish-out-bordered line; between the bands is a very small indistinct white-bordered black "orbicular" spot and a narrow white "reniform" lunule; before the apex are two transverse narrow whitish lines with ill-defined dark bands between them, all retracting to the costa: hind wing with an irregular transverse whitish submarginal line, the space posteriorly between which and the exterior margin is ferruginous; a dark medial indistinct band. Underside greyish brown, narrow transverse strigæ numerous and distinct: fore wing with a dark chocolate-brown interiorly angled apical patch, with a whitish-bordered line; proceeding from the angle is an indistinct whitish streak to the base of the wing; orbicular spot white; reniform lunule with a black centre: hind wing with a whitish medial space, within which is a prominent black discal spot. Abdomen white at the base beneath. Middle tarsi white. Hind legs partly white.

Expanse $2\frac{1}{8}$ inches.

Bengal (*Sherwill*). In Coll. F. Moore.

Fam. HYPENIDÆ.

Genus DICHROMIA, Guen.

DICHROMIA OROSIALIS, Cram. Pap. Exot. pl. 275. f. D.

D. TRIPLICALIS, Walk. Cat. Lep. Het. B. M. xvi. Delt. p. 16.
Darjeeling.

PROC. ZOOL. SOC.—1867, No. VI.

TALAPA, n. g., Moore.

Female robust. Palpi porrect, compressed, pilose; second joint recurved upwards and outwards, extending beyond the head; third joint two-thirds the length of the second, straight, slender. Antennæ very minutely pectinated. Legs slightly pilose; mid tibiæ with one pair and hind tibiæ with two pairs of long slender spurs. Body stout. Abdomen extending beyond the angle of the hind wing. Wings ample: fore wing broad; costa nearly straight; apex acute; exterior margin wavy, oblique, angled in the middle: hind wing broad; anterior angle rounded; exterior margin wavy, slightly angled hindward.

TALAPA CALIGINOSALIS. (Pl. VII. fig. 6.)

Remigia caliginosa, Walk. Cat. Lep. Het. B. M. xxxiii. Suppl. iii. p. 1017.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson; F. Moore.

ANORATHA, n. g., Moore.

Male and *female* slender. Palpi porrect, long, covered with short hairs of equal length, compressed; second joint straight, slightly recurved in the female, ascending upward and outward to the level of the vertex, and extending half its length beyond the head; third joint one-third the length of the second, fusiform. Antennæ minutely pectinated in the male, simple in the female. Legs very long, slender, mostly smooth; mid tibiæ with one pair and hind tibiæ with two pairs of long slender spurs. Body slender. Abdomen long, attenuated, and in the male extending nearly half its length beyond the angle of the hind wing. Wings long, narrow.

Male. Costa elongated, straight; apex slightly falcate; exterior margin very oblique, slightly angled in the middle; hind margin half the length of the costa. Hind wing arched at the base and near the apex; anterior margin extending considerably beyond the posterior angle of the fore wing; apex rounded; exterior margin produced and angled in the middle.

Female. Apex falcated; exterior margin less oblique, but more angled in the middle; posterior margin longer, two-thirds the length of the costa. Hind wing somewhat less produced apically; apex more acute; exterior margin recurved; abdominal margin longer.

ANORATHA COSTALIS, n. sp. (Pl. VII. fig. 9.)

Male and *female* cupreous brown.

Male. Costal border broadly pinkish white; an indistinct brown short oblique medial streak, a narrow reniform mark, and a distinct pinkish-white outer-bordered very oblique transverse narrow discal band; an irregular submarginal row of blackish spots with whitish outer borders: hind wing and abdomen pale cinereous cupreous brown, with an indistinct partly transverse discal pale streak. Front of head and sides of thorax fringed with white. Underside brown:

hind wing with narrow indistinct discal spot and outer recurved transverse band.

Female. Fore wing darker; costal and transverse discal band ochreous, both well defined; the black submarginal spots without white borders: hind wing with the transverse discal pale narrow band more distinct. Underside as in male.

Expanse $1\frac{3}{8}$ inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

Genus HYPENA, Schr.

HYPENA LACESSALIS, Walk. Cat. Lep. Het. B. M. xvi. Delt. p. 59.

H. ABDUCALIS, Walk. ib. p. 66.

H. CONSCITALIS, Walk. ib. xxxiv. Suppl. iv. p. 1509.

Cherra Poonjee.

H. EXTENSA, Walk. ib. p. 1139.

H. TENEBRALIS, n. sp.

Male and *female* blackish cupreous brown: fore wing chalybeous-speckled, and indistinctly marked with short blackish strigæ; a medial transverse brown band with pale-bordered black marginal line; orbicular and reniform spots black; a submarginal row of posteriorly decreasing black spots, which are exteriorly bordered with white speckles; apex white-speckled, beneath which is a black streak: hind wing and abdomen paler brown. Abdomen with dark brown dorsal tufts. Underside uniform brown: fore wing with a white spot before the apex: hind wing with a black discal mark and two indistinct narrow outer bands.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. W. S. Atkinson; F. Moore.

H. CERVINALIS, n. sp.

Male and *female* fawn-colour: fore wing with numerous narrow transverse delicate indistinct black strigæ; two medial transverse ochreous-brown pale-bordered lines; orbicular spot white; reniform spot black; an indistinct black spot before the apex; marginal line dark; cilia with a pale inner line. Underside paler; short brown strigæ and blackish discal spot on the hind wing, which are less apparent on the fore wing. Palpi and front of head blackish.

Expanse $1\frac{1}{2}$ inch.

Bengal. In Coll. A. E. Russell; W. S. Atkinson.

II. COSTINOTALIS, n. sp.

Male and *female* ferruginous; minutely and indistinctly black-speckled: fore wing with three equidistant pure-white costal spots; both wings with a black discal dot, outer transverse black-speckled wavy line, and marginal rows of dots; cilia reddish. Top of the head white. Antennæ with a row of white dots along the base of

the shaft. Underside pale brown; discal spot, outer transverse line, and marginal dots less defined than above.

Expanse 1 inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

II. CASTANEALIS, n. sp.

Male and *female* dull chestnut-brown: fore wing suffused with chalybeous, with two oblique medial transverse chalybeous-brown lines bordered by a chalybeate outer line, the inner line zigzag, the outer bent outward before its middle; a submarginal row of indistinct black spots with chalybeous outer borders; a chalybeous streak before the apex, and a similar patch at the posterior angle: hind wing and abdomen cinereous brown; marginal line darker. Palpi, front of head, legs, and costa beneath ochreous. Underside—fore wing cinereous brown: hind wing greyish brown.

Expanse $1\frac{1}{4}$ inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

II. RECTIVITTALIS, n. sp.

Female pale testaceous: fore wing with numerous short delicate brown transverse strigæ; a distinct brown straight transverse submarginal narrow double band; a small black-marked white orbicular spot. Front of head and tuft of palpi above hoary. Palpi brown. Cilia brown. Underside paler, minutely speckled.

Expanse 1 inch.

Bengal. In Coll. A. E. Russell.

II. BASISTRIGALIS, n. sp.

Male and *female* greyish brown; exterior border of fore wing white-speckled: fore wing with a large cupreous-brown patch, the outer border of which has a double white marginal line commencing from the costa one-third from the apex, curving obliquely towards the exterior margin, where it is much bent, and then retracting to the posterior margin one-third from the angle, where it meets a white streak recurved from the base of the costa; a brown streak from the angle of the patch to the apex; a submarginal series of indistinct white-speckled spots; indistinct blackish orbicular and reniform spots. Underside paler: fore wing with an indistinct darker discal spot, and a white dot at the apex: hind wing brown-speckled, with a discal spot and paler outer line.

Expanse $1\frac{1}{4}$ inch.

Cherra Poonjee; Darjeeling. In Coll. W. S. Atkinson; F. Moore.

II. DIVISALIS, n. sp.

Female. Fore wing dark chestnut-brown; exterior border fawn-colour, with a transverse discal narrow slightly bent purple-white line, having a diffused pale purplish-pink outer border; a submarginal row of indistinct white-speckled black spots; a short recurved indistinct pale purplish-white streak from the base of the wing; an indistinct dusky streak below the apex: hind wing and abdomen

cinereous brown. Underside fuliginous brown: fore wing with two white-marked black subapical dots and indistinct transverse discal band: hind wing with a more distinct discal spot and outer curved band.

Expanse $1\frac{3}{4}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

H. LONGIPENNIS, Walk. Catal. Lep. Het. B. M. xxxiv. Suppl. iv. p. 1139.

Darjeeling.

Fam. HERMINIDÆ.

Genus HERMINIA, Latr.

HERMINIA HADENALIS, n. sp.

Male greyish brown: fore wing with two medial transverse black-speckled-bordered pale lines, a round black orbicular dot, and a triangular reniform spot; the inner line nearly straight, the outer recurved and at each end with an exterior black patch; a black zigzag submarginal line and a marginal row of dots: hind wing with indistinct blackish pale-bordered streaks from anal angle; a marginal row of black dots. Underside paler, with indistinct dark transverse sinuous pale-bordered lines and blackish discal spot; a row of marginal lunules. Palpi and legs dark brown.

Expanse $1\frac{3}{10}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

H. OCHRACEALIS, n. sp.

Female ochraceous, palest exteriorly: fore wing with a medial transverse subdued dusky band, which passes over an indistinct reniform spot; a similar submarginal band extending to the apex and passing through a black subapical spot; between the bands is a recurved series of black dots; exterior margin with a row of black dots: hind wing pale ochraceous white, with a narrow upper and a diffused lower blackish streak from above the anal angle; a narrow blackish lunular marginal line; cilia ochraceous. Abdomen dusky, with narrow white segmental bands; tip ochraceous. Underside ochraceous, black-speckled: fore wing dusky at the base; a black discal and subapical spot, and transverse sinuous line: hind wing with black discal spot, transverse sinuous line, and outer row of spots.

Expanse $1\frac{3}{8}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

H. ? ALBIRENALIS, n. sp.

Male and *female* black brown: fore wing with three indistinct black medial transverse bands with chalybeate white-speckled borders, the outer borders sinuous and more prominently speckled; reniform spot white; a white-speckled zigzag submarginal line; a speckled patch below the apex, and a few speckles along the anterior margin: hind wing paler, with short indistinct black sinuous bands

with white-speckled borders from the anal angle; cilia with white spots. Underside paler, marked as above. Palpi in the male porrect, compressed; second joint long, slender, and bent at the apex, squamous, tufted above at the end; third joint short, one-third the length of the second, fusiform, tufted above: in the female erect, curved; first and second joints squamous; third joint very slender, naked, nearly the length of the second. Antennæ in the male fixed on a short pedestal, serrated and pectinated; base curved; shaft tumid near the base; in the female minutely pectinated.

Expanse, ♂ $1\frac{5}{8}$, ♀ $1\frac{1}{2}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Genus MASTYGOPHORA, Poey.

MASTYGOPHORA? SCOPIGERALIS, n. sp.

Male brown: fore wing with a pale yellowish-brown oblique transverse band with wavy dark brown borders, the exterior formed by a double line with posterior black streaks; within the band is a brown indistinct reniform streak; orbicular spot small, whitish. Both wings with a submarginal transverse wavy sinuous pale line with black points, and a less distinct similar marginal line. Underside ochreous white, with broad brown exterior borders, narrow transverse sinuous line and short discal streak, and a pale sinuous line crossing the exterior borders. Legs blackish. Tuft of palpi pale ochreous.

Expanse $1\frac{1}{2}$ inch.

Bengal (*Sherwill*). In Coll. F. Moore.

Remark.—This species may be known by its enormously lengthened palpi (in the male), the third joint of which has a brush-like tuft of very long silky hairs beneath.

Genus ECHANA, Walk.

ECHANA PLICALIS, n. sp. (Pl. VII. fig. 7.)

Male and *female* brownish fawn-colour, slightly glossy; costal fold darker: fore wing with two indistinct yellowish narrow imperfect denticulated lines—the first from beneath the fold, the other beyond it, both indistinctly crossing the hind wing, on the underside of which they are more distinct and have a dark inner border, there being also a short dark subbasal streak; cilia with a pale inner narrow line.

Expanse $1\frac{1}{4}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Remark.—The species of this genus may be known by the fore wing having in both sexes a large subfusiform costal raised fold above, and the dislocation of the contiguous veins.

Genus LOCASTRA, Walk.

LOCASTRA PHERECIUSCALIS, Walk. Cat. Lep. Het. B. M. xvi. Delt. p. 159.

Silhet.

L. CUPROVIRIDALIS, n. sp.

Female. Fore wing coppery green; two medial transverse black sinuous lines, the inner line with a black spot at the base and another above it; middle of the wing between the lines whitish, green-speckled; the orbicular and reniform spots black, conjoined; a marginal row of alternate black and white spots; cilia spotted with black opposite to the white marginal spots: hind wing white, with a broad fuliginous cupreous-brown exterior band. Thorax coppery green. Abdomen blackish, speckled with white. Palpi tipt with white. Underside white; both wings with a broad brown exterior band; discal spot on hind wing and base of costa brown; marginal dots white. Legs blackish green, each joint tipt with white.

Expanse $1\frac{1}{2}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Genus BERTULA, Walk.

BERTULA HISBONALIS, Walk. Cat. Lep. Het. B. M. xvi. Delt. p. 164.

Silhet.

B. BREVVITALIS, n. sp.

Male blackish brown: fore wing with two transverse narrow yellow bands, a small black orbicular spot, and a large reniform spot; first band upright, the second oblique; an irregular wavy submarginal yellowish line with a longitudinal short straight yellow streak below the apex; a marginal row of triangular black spots: hind wing paler, with rather indistinct blackish discal spot, a curved outer pale-bordered narrow yellow band, and submarginal similar sinuous band; a row of blackish marginal lunules. Palpi edged with yellow. Legs blackish, spotted with yellow.

Expanse $1\frac{2}{5}$ inch.

Bengal. In Coll. A. E. Russell.

B. CHALYBEALIS, n. sp. (Pl. VII. fig. 8.)

Male and female dark chestnut-brown, more or less suffused with chalybeous: fore wing with two narrow pale-inner-bordered darker brown oblique transverse bands, between which is a narrow reniform mark; an indistinct submarginal irregular wavy narrow brown band: hind wing with pale-bordered narrow transverse discal band, a less distinct inner discal mark, and outer submarginal irregular brown band; cilia greyish-speckled. Underside paler, speckled with grey. Thorax and palpi chestnut-brown, the latter fringed with white in the male.

Expanse $1\frac{5}{8}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

B. STIGMATALIS, n. sp.

Male and female dark fuliginous brown: fore wing with two widely separated medial transverse blackish lines, the inner line nearly

straight, the outer wavy, both bordered exteriorly with a chalybeous-speckled double band; a chalybeous-speckled black band at the base of the wing, and two similar submarginal wavy bands; orbicular and reniform spots large, black; a marginal row of black lunules: hind wing and abdomen paler; some whitish-bordered black sinuous streaks from the anal angle; marginal lunular line blackish. Under-side brown: hind wing with two black discal spots and three outer indistinct sinuous bands. Palpi in the male stout, reflexed over the head, extending beyond the thorax, furnished with dense soft hairs along the length resting on the thorax; second and third joints slightly curved, of equal length; third joint ensiform: in the female slender, squamous, curved upwards; third joint subulate, nearly as long as the second. Antennæ in the male pectinated, the pectinations formed of fascicles of fine bristles; in the female minutely serrated.

Expanse $1\frac{3}{10}$ inch.

Bengal. In Coll. W. S. Atkinson; F. Moore.

Genus BOCANA, Walk.

BOCANA BASALIS, n. sp.

Female dark fuliginous brown: fore wing with the base dull ferruginous and brown-speckled; a submarginal row of small yellow spots: hind wing and abdomen pale fuliginous brown. Thorax streaked with ferruginous at the sides in front. Palpi ferruginous, black-speckled. Underside paler; costa and hind wing whitish-speckled: fore wing with the costa near the apex slightly ferruginous; a short whitish costal streak before the apex: hind wing with dark brown discal spot and two outer whitish-bordered narrow bands. Both wings above and beneath with a black lunular marginal line. Body and legs blackish brown; legs with ferruginous spots.

Expanse $1\frac{1}{3}$ inch.

Bengal. In Coll. A. E. Russell.

B. VIRIDALIS, n. sp.

Female dull green: fore wing thickly black-speckled, the speckles forming some black streaks at the base; a double wavy transverse line before the middle, and some transverse patches beyond and on the submargin; a black discal spot and a black-speckled white spot near the posterior angle: hind wing and underside dull pale cupreous brown. Legs, thorax beneath, and palpi ochreous white.

Expanse $1\frac{2}{8}$ inch.

Bengal (*Sherwill*). In Coll. F. Moore.

B. QUADRILINEALIS, n. sp.

Male brown: fore wing suffused with grey; four transverse dark brown narrow lines, the first subbasal and nearly upright, the others inwardly oblique; the second line between a black "orbicular" and a "reniform" dot; a submarginal indistinct zigzag brown line: hind wing cupreous brown. Anal tuft pale ochreous.

Expanse $1\frac{3}{4}$ inch.

Darjeeling. In Coll. W. S. Atkinson.

B. MURINALIS, n. sp.Allied to *B. turpitalis*.

Female yellowish brown: fore wing somewhat greyish brown at the base; a brown subbasal transverse outwardly oblique narrow irregular line; a straight transverse discal sinuous line, and a pale-bordered straight submarginal line; a small dark brown orbicular and reniform spot: hind wing duller brown, with an indistinct narrow whitish streak from anal angle. Underside dull brown, with an indistinct discal spot, and two narrow outer transverse brown bands. Palpi blackish.

Expanse $1\frac{7}{10}$ inch.

Bengal. In Coll. F. Moore.

Tribe PYRALES.

Fam. PYRALIDÆ.

Genus PYRALIS, Linn.

PYRALIS LUCILLALIS, Walk. Cat. Lep. Het. B. M. xvii. Pyral. p. 268.

Darjeeling (*W. S. Atkinson*).

P. SUFFUSALIS, Walk. ib. xxxiv. Suppl. iv. p. 1235.

Calcutta (*W. S. Atkinson*).

Genus HERCULIA, Walk.

HERCULIA BRACTEALIS, Walk. ib. xix. Pyral. p. 808.

Genus AGLOSSA, Latr.

AGLOSSA ARGENTALIS, n. sp.

Female. Fore wing silvery white; two oblique medially transverse blackish sinuous lines, the interspace being fuliginous brown, except the costal portion nearest the apex; base of wing and exterior border partly fuliginous brown, the latter traversed by a white lunular line; a row of black marginal spots; cilia white, with fuliginous-brown edge and inner spots: hind wing cinereous. Head and thorax white, the latter with fuliginous spots. Abdomen cinereous brown. Palpi white above, fuliginous beneath. Underside cinereous brown: hind wing paler and with a short brown discal mark. Legs fuliginous, each joint tipped with white.

Expanse $1\frac{3}{4}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

Fam. ENNYCHIDÆ.

Genus PYRAUSTA, Schr.

PYRAUSTA SILHETALIS, Guen. Delt. et Pyr. p. 166; Walk. Cat. Lep. Het. B. M. xvii. p. 311.

Botys silhetalis, Lederer, Wien. ent. Monat. vii. p. 364.

Genus RHODARIA, Guen.

RHODARIA CONCATENALIS, Walk. Cat. Lep. Het. B. M. xxxiv. Suppl. iv. p. 1284.

Darjeeling.

Fam. ASOPIDÆ.

Genus CHNAURA, Lederer.

CHNAURA OCTAVIALIS.

Syngamia octavialis, Walk. *l. c.* xvii. p. 334.

Chnaura octavialis, Lederer, Wien. ent. Monat. vii. p. 435, t. 17. f. 4. Darjeeling (*W. S. Atkinson*).

Genus SAMEA, Guen.

SAMEA GRATIOSALIS, Walk. *l. c.* xvii. p. 357.

Darjeeling (*W. S. Atkinson*).

Genus AGATHODES, Guen.

AGATHODES OSTENTALIS.

Perinephela ostentalis, Geyer, Hübner. Zutr. Samml. exot. Schmett. f. 833.

Agathodes ostentalis, Guen. Delt. et Pyral. p. 208.

Genus TERASTIA, Guen.

TERASTIA DIVERSALIS.

Agathodes diversalis, Walk. *l. c.* xxxiv. Suppl. iv. p. 1307.

Darjeeling (*W. S. Atkinson*).

Genus LEUCINODES, Guen.

LEUCINODES ORBONALIS, Guen. Delt. et Pyral. p. 223.

Fam. HYDROCAMPIDÆ.

Genus OLIGOSTIGMA, Guen.

OLIGOSTIGMA CRASSICORNALIS, Guen. Delt. et Pyral. p. 261; Walk. *l. c.* xvii. p. 433.

Hydrocampa crassicornalis, Lederer, Wien. ent. Monat. vii. p. 451.

Oligostigma tripunctalis, Walk. *l. c.* xxxiv. Suppl. iv. p. 1531.

Genus HERDONIA, Walk.

HERDONIA OSACESALIS, Walk. *l. c.* xix. p. 964.

Silhet; Darjeeling.

Genus HYDROCAMPA, Latr.

HYDROCAMPA PULCHRALIS, n. sp.

Male and female pale straw-yellow: fore wing with some small

ill-defined spots at the base ; a quadrate spot at the end of the cell, two larger spots beyond it, one being below the latter, and some outer very small indistinctly defined spots and a wavy marginal line, all the interspaces being dark brown : hind wing with a dark brown discal spot, and a marginal band enclosing a large anterior spot and smaller lower spots ; cilia alternate white and brown. Palpi above, head, and thorax brown. Abdomen with narrow white segmental bands. Underside paler. Palpi beneath and legs white. Fore tibiæ brown.

Expanse 1 inch.

Darjeeling. In Coll. A. E. Russell ; W. S. Atkinson.

Fam. SPILOMELIDÆ.

Genus LEPYRODES.

LEPYRODES GEOMETRALIS, Guen. Delt. et Pyral. p. 278.

L. LEPIDALIS, Walk. Cat. Lep. Het. B. M. xvii. p. 465.

L. PERSPICUALIS.

Zebronia perspicualis, Walk. l. c. xxxiv. Suppl. iv. p. 1347.

Botys flexissimalis, Walk. ib. p. 1426.

Darjeeling (*W. S. Atkinson*).

Genus PYCNARMON, Lederer.

PYCNARMON JAGUARALIS.

Spilomela jaguaralis, Guen. Delt. et Pyral. p. 283.

Zebronia jaguaralis, Walk. ib. xvii. p. 486.

Pycnarmon jaguaralis, Lederer, Wien. ent. Monat. vii. p. 441, t. 17. f. 11.

Darjeeling (*W. S. Atkinson*).

P. ABRAXALIS.

Zebronia abraxalis, Walk. l. c. xxxiv. Suppl. iv. p. 1349.

Darjeeling (*W. S. Atkinson*).

P. ZEBRALIS, n. sp. (Pl. VII. fig. 12.)

Male and *female* white : fore wing with eleven transverse narrow black bands ; cilia white : hind wing pale yellow, diffused with orange-colour externally ; two black basal streaks and three equidistant exterior spots, one being at the anterior angle, another above the anal angle, and the third midway between them ; a white submarginal line ; a black spot on cilia at the apex ; cilia pale ferruginous. Thorax black-streaked. Abdomen pale ferruginous, with black sub-terminal spots. Underside paler, marked as above. Legs and palpi white, with black spots.

Expanse $1\frac{2}{10}$ inch.

Darjeeling. In Coll. A. E. Russell ; W. S. Atkinson.

P. VIRGATALIS, n. sp. (Pl. VII. fig. 10.)

Male and female pearly white: fore wing with three small brown basal spots; a transverse subbasal band, two short bands from the costa, and two bands beneath them from the posterior margin; a similar band along exterior border: hind wing with four brown transverse bands, the middle two joined at their base, the outer band marginal. Thorax spotted with brown, three in front and five on the top. Abdomen with two basal spots and anal tuft brown. Underside paler, marked as above.

Expanse $\frac{7}{10}$ inch.

Bengal. In Coll. W. S. Atkinson; F. Moore.

P. AUROLINEALIS.

Zebonia aurolinealis, Walk. Cat. Lep. Het. B.M. xvii. Pyral. p. 478. Darjeeling (*W. S. Atkinson*).

P. PLUTUSALIS.

Zebonia plutusalis, Walk. ib. p. 478. Darjeeling (*W. S. Atkinson*).

P. BISTRIGALIS.

Zebonia bistrigalis, Walk. ib. xxxiv. Suppl. iv. p. 1348. *Z. inscriptalis*, Walk. MS. B. M. Coll.

P. DISCERPTALIS.

Zebonia discerptalis, Walk. ib. p. 1348. Darjeeling.

Fam. MARGARONIDÆ.

Genus GLYPHODES, Guen.

GLYPHODES STOLIALIS, Guen. Delt. et Pyral. p. 293. Darjeeling.

G. DIURNALIS, Guen. ib. p. 294. Darjeeling (*W. S. Atkinson*).

G. CÆSALIS, Walk. Cat. Lep. Het. B. M. xvii. Pyral. p. 499. Darjeeling.

G. LUCIFERALIS.

Botys luciferalis, Walk. ib. xxxiv. Suppl. iv. p. 1412. *G. lora*, MS. Darjeeling.

G. ACTORIONALIS, Walk. ib. xvii. Pyral. p. 498; Lederer, Wien. ent. Monat. vii. t. 14. f. 4.

Darjeeling.

G. LACUSTRALIS, n. sp. (Pl. VII. fig. 11.)

Male and *female* brownish ochreous: fore wing with a black-bordered pearly pinkish-white semitransparent irregular longitudinal medial streak extending from near the base beneath the cell to near the apex, crossed by an oblique black spot beneath an indistinct black discal spot; exterior border of white streak broadly margined with black and with an outer or submarginal lunular black line: hind wing pearly white, semitransparent, with a brownish ochreous outer border, which is margined within with black; cilia white. Palpi above, head, and sides of thorax brownish ochreous; top of thorax and base of abdomen pale yellowish; tip ochreous. Palpi and thorax beneath and legs white. Underside paler.

Expanse $1\frac{3}{8}$ inch.

Bengal. In Coll. W. S. Atkinson; F. Moore.

G. VAGALIS, Walk. Cat. Lep. Het. B. M. xxxiv. Suppl. iv. p. 1356. Darjeeling (*W. S. Atkinson*).

G. GASTRALIS, Walk. ib. p. 1354.

Darjeeling.

Genus MARUCA, Walk.

MARUCA AQUATILIS, Walk. *l. c.* xviii. Pyral. p. 540.

Genus SYNCLERA, Lederer.

SYNCLERA TRADUCALIS.

Eudiotis traducalis, Zeller, Lep. Caffr. (1852) p. 54.

Synclera traducalis, Leder. Wien. ent. Monat. vii. p. 444.

S. retinalis, Leder. ib. 1857, p. 100.

Glyphodes univocalis, Walk. *l. c.* xviii. p. 499 (1859).

Genus PHAKELLURA, Lansdown Guilding.

PHAKELLURA INDICALIS.

Eudiotis indica, Saunders, Zool. ix. p. 3070.

Phakellura indica, Walk. *l. c.* xviii. p. 514.

P. gazorialis, Guen. Delt. et Pyral. p. 297.

P. TRANSLUCIDALIS, Guen. ib. p. 299.

Silhet.

P. SUPERALIS, Guen. ib. p. 299.

Silhet.

Genus CYDALIMA, Lederer.

CYDALIMA LATICOSTALIS.

Margarodes laticostalis, Guen. ib. p. 303.

Margaronia laticostalis, Walk. *l. c.* xviii. p. 528.

Cydalima laticostalis, Leder. Wien. ent. Monat. vii. p. 397.

Silhet.

C. CONCHYALIS.

Margarodes conchyalis, Guen. Delt. et Pyral. p. 303, pl. 8. f. 9.

Margaronia conchyalis, Walk. Cat. Lep. Het. B. M. xviii. p. 529.

Cydalima conchyalis, Leder. l. c. p. 397.

Larva feeds on *Echites antidiysenterica*.—A. Grote, Esq.

Genus PACHYARCHES, Lederer.

PACHYARCHES AMPHITRITALIS.

Margarodes amphitritalis, Guen. l. c. p. 307.

Margaronia amphitritalis, Walk. l. c. xviii. p. 529.

Pachyarches amphitritalis, Leder. l. c. p. 398.

Silhet.

P. PSITTACALIS.

Parotis psittacalis, Hübn. Samml. exot. Schmett. f. 523.

Margarodes psittacalis, Guen. l. c. p. 308.

Margaronia psittacalis, Walk. l. c. xviii. p. 529.

Pachyarches psittacalis, Leder. l. c. p. 398.

P. POMONALIS.

Margarodes pomonalis, Guen. l. c. p. 309.

Margaronia pomonalis, Walk. l. c. xviii. p. 530.

Pachyarches pomonalis, Leder. l. c. p. 398.

P. MARTHESIUSALIS.

Margaronia marthesiusalis, Walk. l. c. xviii. p. 531.

Darjeeling (*W. S. Atkinson*).

Genus SISYROPHORA, Lederer.

SISYROPHORA PFEIFFERÆ, Leder. l. c. p. 399, t. 13. f. 13.

Darjeeling.

Genus MARGARONIA, Hübner.

Syn. *Margarodes*, Guen.

MARGARONIA TRANSVISALIS, Walk. l. c. xix. p. 976.

Darjeeling (*W. S. Atkinson*).

Genus HOTERODES, Guen.

HOTERODES CINEREALIS, n. sp.

Male and female silky cinereous: hind wing and abdomen whitish cinereous; anal tuft yellow: hind wing of female with an indistinct dusky marginal band. Palpi ochreous. Underside paler.

Expanse, ♂ $1\frac{3}{4}$, ♀ $1\frac{5}{8}$ inch.

Darjeeling. In Coll. A. E. Russell; *W. S. Atkinson*.

Genus PYGOSPILA, Guen.

PYGOSPILA TYRESALIS.

Phalæna-pyralis tyres, Cram. Pap. Exot. iii. pl. 263. f. C.
Pygospila tyresalis, Guen. Delt. et Pyral. p. 312.

Genus EUGLYPHIS, Hübn.

Syn. *Neurina*, Guen.

EUGLYPHIS PROCOPIALIS.

Phalæna-pyralis procopialis, Cram. Pap. Exot. iv. pl. 368. f. E.
Euglyphis procopialis, Hübn. Verz. Schmett. p. 341; Walk. Cat. Lep. Het. B. M. xvii. p. 538.
Neurina procopialis, Guen. Delt. et Pyral. p. 314; Lederer, Wien. ent. Monat. vii. p. 395.

Genus FILODES, Guen.

Syn. *Pinacia*, p., Hübn.

FILODES FULVIDORSALIS.

Pinacia fulvidorsalis, Geyer, Hübn. Zutr. Samml. exot. Schmett. f. 643.
Filodes fulvidorsalis, Guen. Delt. et Pyral. p. 317; Leder. Wien. ent. Monat. vii. t. 12. f. 17.
Euglyphis fulvidorsalis, Walk. Cat. Lep. Het. B. M. xvii. Pyral. p. 539.

FILODES NIGROLINEALIS, n. sp.

Male bright ferruginous: fore wing with a narrow black streak between the veins; two black spots within the cell, and three others at the base of the wing; cilia dark cinereous brown: hind wing and abdomen dark cinereous brown. Underside paler, with the costa and apex also cinereous brown. Legs cinereous black. Palpi black, tipped with ferruginous. Proboscis black.

Expanse $1\frac{4}{10}$ inch.

Bengal. In Coll. A. E. Russell.

F. OCTOMACULALIS, n. sp.

Female dark fuliginous black. Thorax, abdomen, and base of fore wing metallic blue. Both wings with a large semitransparent white discal spot, and a smaller similar spot below the cell half-way from the base of the wing. Underside paler. Fore femora with a white spot at the base; all the tarsi white. First joint of the palpi white.

Expanse $1\frac{2}{3}$ inch.

Darjeeling. In Coll. A. E. Russell; W. S. Atkinson.

Fam. BOTYDÆ.

Genus ASTURA, Guen.

ASTURA PUNCTIFERALIS, Guen. Delt. et Pyral. p. 320; Walk. Cat. Lep. Het. B. M. xviii. p. 548.

Botys punctiferalis, Lederer, Wien. ent. Monat. vii. p. 364.

B. evaxalis, Walk. l. c. p. 995.

Genus BOTYODES, Guen.

BOTYODES ASIALIS, Guen. l. c. p. 321; Lederer, l. c. t. 13. f. 8; Walk. l. c. p. 551.

B. FLAVIBASALIS, n. sp.

Male and *female* yellow; with a broad exterior marginal chalybeate cinereous-brown band, the inner border defined by a narrow black line: fore wing with the border of the band bent below an elongated transverse discal cinereous-brown spot; band of the hind wing with a straight inner border: fore wing with two small black basal costal spots, and a narrow transverse subbasal black line. Some black spots on the thorax. Underside paler, without the basal spots and transverse line. Femora and tibiæ with a black spot at the apex.

Expanse $1\frac{4}{10}$ inch.

Bengal. In Coll. A. E. Russell; W. S. Atkinson.

Genus BOTYS, Latr.

BOTYS SCINISALIS, Walk. l. c. xviii. p. 648.

B. ILLISALIS, Walk. l. c. xviii. p. 653; Lederer, l. c. t. 9. f. 12. Darjeeling (*W. S. Atkinson*).

B. UNITALIS, Guen. Delt. et Pyral. p. 349; Walk. l. c. xviii. p. 655. *B. megapteralis*, Walk. l. c. xxxiv. Suppl. iv. p. 1407.

B. MULTILINEALIS, Guen. l. c. p. 337, pl. 8. f. 11; Walk. l. c. xviii. p. 661; Lederer, l. c. t. 11. f. 3.

Zebronia salomealis, Walk. l. c. xvii. p. 476; Suppl. iv. p. 1348.

B. DAMOALIS, Walk. Cat. Lep. Het. B. M. xviii. Pyral. p. 656.

B. AMYNTUSALIS, Walk. ib. p. 662.

Darjeeling (*W. S. Atkinson*).

B. INCISALIS, Walk. Catal. Lep. Het. B. M. xxxiv. Suppl. iv. p. 1410.

Darjeeling.

B. PLAGALIS, n. sp.

Male and *female* cinereous white: fore wing with a cinereous-brown costal band, discal spot, outer transverse line, and broad ex-

terior band: hind wing with a similar transverse discal line and outer band; cilia whitish anteriorly and with a brown inner line. Sides of head and thorax and third joint of palpi dark brown. Abdomen whitish; tip brownish. Underside paler.

Expanse $\frac{1}{10}$ inch.

Darjeeling. In Coll. W. S. Atkinson; F. Moore.

B. INCOLORALIS, Guen. Delt. et Pyral. p. 333; Walk. Cat. Lep. Het. B. M. xviii. p. 656; Lederer, *l. c.* p. 364.

Silhet.

B. MACCALIS, Lederer, *l. c.* p. 466, t. 9. f. 14.

Silhet.

B. ZEALIS, Guen. *l. c.* p. 332; Walk. *l. c.* xviii. p. 656; Lederer, *l. c.* p. 364.

Silhet.

B. TULLALIS, Walk. *l. c.* xviii. Pyral. p. 649.

Silhet.

B. CALETORALIS, Walk. *ib.* p. 651.

Silhet.

B. PATULALIS, Walk. *ib.* xxxiv. Suppl. iv. p. 1405.

Darjeeling.

B. SUBTESSELLALIS, Walk. *ib.* p. 1406.

Darjeeling.

C. CONCATENALIS, Walk. *ib.* p. 1408.

Darjeeling.

Genus DYSALLACTA, Lederer.

DYSALLACTA NEGATALIS.

Phalangioides negatalis, Walk. *l. c.* xvii. Pyral. p. 468.

Dysallacta negatalis, Lederer, Wien. ent. Monatschr. p. 393, t. 13. f. 6.

Botys monesusalis, Walk. *l. c.* xviii. p. 653.

B. phanasalis, Walk. *ib.* p. 727.

Darjeeling (*W. S. Atkinson*).

DESCRIPTION OF PLATES VI. & VII.

PLATE VI.

Fig. 1. *Tympanistes pallida*, p. 49.

2. — *testacca*, p. 49.

3. *Epilecta pulcherrima*, p. 54.

4. *Synna curvilinea*, p. 69.

5. *Checupa fortissima*, p. 60.

6. *Diphtera pallida*, p. 46.

7. *Lucania pulcherrima*, p. 48.

8. *Gortyna cuprea*, p. 50.

9. *Euplexia discisignata*, p. 57.

Fig. 10. *Canna pulchripicta*, p. 61.

11. *Hadena auroniridis*, p. 59.

12. *Briada varians*, p. 66.

13. *Plusia semivitta*, p. 63.

14. *Diphtera discibrunea*, p. 46.

15. *Auchmis sikkimensis*, p. 49.

16. *Euplexia alborittata*, p. 57.

17. *Hadena albidisca*, p. 59.

18. *Mythimna cervina*, p. 47.

PLATE VII.

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| Fig. 1. <i>Cotuja deficiens</i> , p. 74. | Fig. 7. <i>Echana plicalis</i> , p. 86. |
| 2. <i>Agriopsis discalis</i> , p. 57. | 8. <i>Bertula chalybealis</i> (♂), p. 87. |
| 3. <i>Tavia catocaloides</i> , p. 71. | 9. <i>Anoratha costalis</i> (♂), p. 82. |
| 4. <i>Fascellina viridis</i> , p. 79. | 10. <i>Pycnarmon virgatalis</i> , p. 92. |
| 5. <i>Episparis tortuosalis</i> (♂), p. 81. | 11. <i>Glyphodes lacustralis</i> , p. 93. |
| 6. <i>Talapa caliginosalis</i> , p. 82. | 12. <i>Pycnarmon zebralis</i> , p. 91. |

[End of Part II.]

January 24, 1867.

Dr. J. E. Gray, F.R.S., V.P., in the Chair.

Mr. P. L. Scater called the attention of the Meeting to a specimen of a species of Ratel (*Mellivora*), obtained by the Society on the 3rd of August 1866 from a dealer in Liverpool, who stated that he had received it by the West-African Mail. This animal appeared to belong to a species different from either the Indian *Mellivora indica* or the South-African *M. capensis*, of both of which the Society's Menagerie had for several years contained living specimens. Dr. Gray had diagnosed these two species of *Mellivora* in a recent communication to the Society* as follows:—

Mellivora indica. Black; the back iron-grey; crown of the head white. India.

Mellivora capensis. Black; the back iron-grey; the crown and a broad stripe down each side of the back to the tail white. South Africa.

To these species, both correctly figured in the second series of Wolf and Scater's 'Zoological Sketches,' Mr. Scater proposed to add a third, founded upon the present specimen, to be diagnosed as follows:—

Mellivora leuconota (Plate VIII.). Smaller: black; back white, purer towards the crown. West Africa.

The following papers were read:—

1. On a New Geckoid Lizard from Ceylon.
By Dr. J. E. GRAY, F.R.S., V.P.Z.S., &c.

(Plate IX.)

The British Museum has lately received from Mr. Cutter some specimens of a Gecko from Ceylon, which appear to be undescribed and to form a distinct genus, which may be called *Geckoella*.

Toes five on each foot; they are thick at the base, with the ends more slender and rather compressed; the under surface is furnished

* See P. Z. S. 1865, p. 680.